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WHARTON ECONOMETRIC FORECASTING ASSOCIATES PHILADELP--ETC F/G 5/3
INTERIM REPORT FOR OFFICE OF NAVAL RESEARCH. VOLUME II, (U)
NOV 77 M WACHTER, R M YOUNG

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WHARTON EFA, INC.



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INTERIM REPORT
FOR
OFFICE OF NAVAL RESEARCH
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NOVEMBER 1, 1977

Volume II

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GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 5.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
.FMIS	272	I	PERCENT CHANGE, MONEY SUPPLY (M1), ANNUAL RATE	PERCENT	TRANSFORMATION
.GDP	420	I	PERCENT CHANGE, REAL GROSS NATIONAL PRODUCT	PERCENT	SCB 6.9
.GMP	421	I	PERCENT CHANGE, GROSS NATIONAL PRODUCT	PERCENT	SCB 6.9
.PDGMP	422	I	PERCENT CHANGE, GROSS NATIONAL PRODUCT	PERCENT	SCB 6.9
.BLSPH	735	B	QLS INDEX, PRIVATE NONFARM ECONOMY, REAL COMPENSATION PER MANHR	1967 = 100	SCB 6.9
.CCACPS	617	E	CAPITAL CONSUMPTION ADJUSTMENT, CORPORATE PROFITS	BILL CURRENT \$	EMPLOYEARM C-10
.CCAPTAG	326	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT AG, FOREST & FISH	BILL CURRENT \$	SCB 1.13
.CCARHNA	330	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT RESIDUAL	PERCENT	
.CCARHNA	333	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT COMMERCIAL & OTHER	PERCENT	
.CCARHNA	334	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT DURABLE MFG	PERCENT	
.CCARHNA	335	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT NONDURABLE MFG	PERCENT	
.CCARHNA	336	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT MINING	PERCENT	
.CCARHNA	337	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT COMMUNICATIONS	PERCENT	
.CCARHNA	338	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT TRANSPORTATION	PERCENT	
.CCARHNA	339	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT ELEC, GAS, SANITARY	PERCENT	
.CCARHNA	340	E	ANNUAL NOMINAL DEPRECIATION RATE, INVESTMENT WITH CAPITAL CONSUMPTION ADJ	PERCENT	
.CCARHNA	341	E	CAP CONS ALLOW, TOTAL, W/O CCA ADJ FI, INSURE, REAL ESTATE	BILL CURRENT \$	SCB 1.9
.CCARHNA	342	E	PERSONAL CONSUMPTION EXPENDITURES, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	343	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	344	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	345	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	346	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	347	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	348	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	349	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	350	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	351	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	352	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	353	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	354	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	355	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	356	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	357	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	358	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	359	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	360	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	361	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	362	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	363	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	364	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	365	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	366	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	367	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	368	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	369	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	370	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	371	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	372	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	373	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	374	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	375	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	376	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	377	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	378	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	379	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	380	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	381	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	382	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	383	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	384	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	385	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	386	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	387	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	388	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	389	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	390	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	391	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	392	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	393	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	394	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	395	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	396	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	397	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	398	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4
.CCARHNA	399	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.3
.CCARHNA	400	E	PERSONAL CONSUMPTION EXPENDITURES, DURABLE GOODS, TOTAL	BILL CURRENT \$	SCB 2.4

VARIABLE	NUMBER TYPE	D E S C R I P T I O N	U N I T S	S O U R C E
PERSONAL CONSUMPTION EXPEND.	120 1	PERSONAL CONSUMPTION EXPEND., SERVICES, HOUSING	BILL CURRENT \$	SCB 2.3
PERSONAL CONSUMPTION EXPEND.	70 0	PERSONAL CONSUMPTION EXPEND., SERVICES, OTHER SERVICES	BILL CONSTANT \$	SCA 2.4
PERSONAL CONSUMPTION EXPEND.	130 1	PERSONAL CONSUMPTION EXPEND., SERVICES, OTHER SERVICES	BILL CURRENT \$	SCB 2.3
PERSONAL CONSUMPTION EXPEND.	51 0	PERSONAL CONSUMPTION EXPEND., SERVICES, HOUSEHOLD OPERATION	BILL CONSTANT \$	SCB 2.4
PERSONAL CONSUMPTION EXPEND.	120 1	PERSONAL CONSUMPTION EXPEND., SERVICES, HOUSEHOLD OPERATION	BILL CURRENT \$	SCB 2.3
PERSONAL CONSUMPTION EXPEND.	27 0	PERSONAL CONSUMPTION EXPEND., SERVICES, TRANSPORTATION	BILL CONSTANT \$	SCA 2.4
PERSONAL CONSUMPTION EXPEND.	127 0	PERSONAL CONSUMPTION EXPEND., SERVICES, TRANSPORTATION	BILL CURRENT \$	SCB 2.3
CORPORATE PROFITS, DOMESTIC, WITH IVA AND CCA ADJUSTMENTS	90 1	CORPORATE PROFITS, TOTAL, WITH IVA AND CCA ADJUSTMENTS	BILL CURRENT \$	SCB 1.13
CORPORATE PROFITS AFTER TAX, TOTAL	510 0	CORPORATE PROFITS, WITH IVA AND W/D CCA ADJ., FIN., F.R. BANKS	BILL CURRENT \$	SCB 1.13
CORPORATE PROFITS BEFORE TAX, TOTAL	680 1	CORPORATE PROFITS AFTER TAX, TOTAL	BILL CURRENT \$	SCA-UNPUBLISHED
CORPORATE PROFITS AND IVA, REST OF WORLD (FOREIGN)	400 1	CORPORATE PROFITS AND IVA, REST OF WORLD (FOREIGN)	PEAK = 100.	MEFA
WHARTON CAPACITY UTILIZATION INDEX, MANUFACTURING	510 1	WHARTON CAPACITY UTILIZATION INDEX, MANUFACTURING	PEAK = 100.	MEFA
WHARTON CAPACITY UTILIZATION INDEX, MINING, UTIL	60 0	WHARTON CAPACITY UTILIZATION INDEX, MINING, UTIL	PEAK = 100.	MEFA
WHARTON CAPACITY UTILIZATION INDEX, MANUFACTURING & MINING	610 0	WHARTON CAPACITY UTILIZATION INDEX, MANUFACTURING & MINING	PEAK = 100.	MEFA
WHARTON CAPACITY UTILIZATION INDEX, DURABLES	207 0	WHARTON CAPACITY UTILIZATION INDEX, DURABLES	PEAK = 100.	MEFA
WHARTON CAPACITY UTILIZATION INDEX, NONDURABLES	300 0	WHARTON CAPACITY UTILIZATION INDEX, NONDURABLES	PEAK = 100.	MEFA
WHARTON CAPACITY UTILIZATION INDEX, MINING	500 0	WHARTON CAPACITY UTILIZATION INDEX, MINING	PEAK = 100.	MEFA
POTENTIAL UNEMPLOYMENT RATE, CIVILIAN LABOR FORCE	230 0	POTENTIAL UNEMPLOYMENT RATE, CIVILIAN LABOR FORCE	PERCENT	TRANSFORMATION
DEFENSE DEPT MILITARY PRIME CONTRACT AWARDS-WORK DONE IN US	40 1	DEFENSE DEPT MILITARY PRIME CONTRACT AWARDS-WORK DONE IN US	BILL CURRENT \$	OFFENSE IND #625
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS AG. FOREST & FISHERY	42 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS AG. FOREST & FISHERY	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS COMMERCIAL	231 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS COMMERCIAL	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS DURABLE MANUFACTURE	200 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS DURABLE MANUFACTURE	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS NONDURABLE MFG	270 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS NONDURABLE MFG	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS MINING	275 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS MINING	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS COMMUNICATIONS	270 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS COMMUNICATIONS	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS TRANSPORTATION	277 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATIONS TRANSPORTATION	PERCENT	TRANSFORMATION
DISCOUNTED PRESENT VALUE OF \$ DEPRECIATION, ELEC. GAS & SANITARY	270 1	DISCOUNTED PRESENT VALUE OF \$ DEPRECIATION, ELEC. GAS & SANITARY	PERCENT	TRANSFORMATION
DUMMY, TO TAKE ACCOUNT OF EFFECTS OF HURRICANE AGES	600 0	DUMMY, TO TAKE ACCOUNT OF EFFECTS OF HURRICANE AGES	PERCENT	WHARTON E.F.A.
DUMMY, STRIKE INDUCED AUTO SHORTAGES	10 1	DUMMY, STRIKE INDUCED AUTO SHORTAGES	PERCENT	WHARTON E.F.A.
DUMMY, DOCK STRIKES IN '51-'2, '51-'2, '51-'2, '51-'2, '51-'2, '51-'2	77 1	DUMMY, DOCK STRIKES IN '51-'2, '51-'2, '51-'2, '51-'2, '51-'2, '51-'2	PERCENT	WHARTON E.F.A.
DUMMY, CANADIAN EXPOSITION, EQUALS 1.0 IN '67-'67, 0 OTHERWISE	40 1	DUMMY, CANADIAN EXPOSITION, EQUALS 1.0 IN '67-'67, 0 OTHERWISE	PERCENT	WHARTON E.F.A.
DUMMY, PRO CONSUMER CREDIT REG MISSES=1.1, 1904-52=1.1, 1904-52=1.1	10 1	DUMMY, PRO CONSUMER CREDIT REG MISSES=1.1, 1904-52=1.1, 1904-52=1.1	PERCENT	WHARTON E.F.A.
DUMMY, EQUALS 1.0 IN 1907.1 AND 1970.3, 0 OTHERWISE	10 1	DUMMY, EQUALS 1.0 IN 1907.1 AND 1970.3, 0 OTHERWISE	PERCENT	WHARTON E.F.A.
DUMMY, STRUCTURAL SHIFT IN CO WATER 1969.1--1970.1, 0 BEFORE 69.1	10 1	DUMMY, STRUCTURAL SHIFT IN CO WATER 1969.1--1970.1, 0 BEFORE 69.1	PERCENT	WHARTON E.F.A.
DUMMY, TAKES VALUES OF \$ VALUE OF LARGE CO'S IN 60.3, 60.4, 60.7-70.2	20 1	DUMMY, TAKES VALUES OF \$ VALUE OF LARGE CO'S IN 60.3, 60.4, 60.7-70.2	PERCENT	WHARTON E.F.A.
DUMMY, COMMERCIAL LOANS OUTSTANDING, =1.0 IN 66.4, 70.3, 70.4, 71.4	10 1	DUMMY, COMMERCIAL LOANS OUTSTANDING, =1.0 IN 66.4, 70.3, 70.4, 71.4	PERCENT	WHARTON E.F.A.
DUMMY, SHIFT IN INDUL PROD.VALE ADDED WEIGHTS, 631-660=1.0 OTHER	600 1	DUMMY, SHIFT IN INDUL PROD.VALE ADDED WEIGHTS, 631-660=1.0 OTHER	PERCENT	WHARTON E.F.A.
DUMMY, INVESTMENT TAX CREDIT-LONG AMENDMENTS, 621-630=1.0 OTHER	601 1	DUMMY, INVESTMENT TAX CREDIT-LONG AMENDMENTS, 621-630=1.0 OTHER	PERCENT	WHARTON E.F.A.
DUMMY, ADJUSTMENT TO EFFECTIVE INVEST TAX CREDIT MATES IN FISCAL	517 1	DUMMY, ADJUSTMENT TO EFFECTIVE INVEST TAX CREDIT MATES IN FISCAL	PERCENT	WHARTON E.F.A.
DUMMY, FOR FALL IN NEF CAR CONSUMPTION, 1970=1.0, 1975=1.0	500 1	DUMMY, FOR FALL IN NEF CAR CONSUMPTION, 1970=1.0, 1975=1.0	PERCENT	WHARTON E.F.A.
DUMMY, EFFECT OF OCCUPATIONAL SAFETY HEALTH ACT ON PRODUCTIVITY	655 1	DUMMY, EFFECT OF OCCUPATIONAL SAFETY HEALTH ACT ON PRODUCTIVITY	PERCENT	WHARTON E.F.A.
DUMMY, TO ACCOUNT FOR (NSA) REGULATIONS ON COAL MINING	602 1	DUMMY, TO ACCOUNT FOR (NSA) REGULATIONS ON COAL MINING	PERCENT	WHARTON E.F.A.
DUMMY, FOR OVER-WITHHOLDINGS ON PERSONAL FEDERAL INCOME TAXES	837 1	DUMMY, FOR OVER-WITHHOLDINGS ON PERSONAL FEDERAL INCOME TAXES	PERCENT	WHARTON E.F.A.
DUMMY, PRODUCTION FUNCTION SHIFTS 1960.1--1970.1, 0 BEFORE 1960.1	607 1	DUMMY, PRODUCTION FUNCTION SHIFTS 1960.1--1970.1, 0 BEFORE 1960.1	PERCENT	WHARTON E.F.A.
DUMMY, FOR REPARATIONS OF OVER-WITHHOLDINGS ON PERSONAL FED TAXES	255 1	DUMMY, FOR REPARATIONS OF OVER-WITHHOLDINGS ON PERSONAL FED TAXES	PERCENT	WHARTON E.F.A.
DUMMY, FIRST QUARTER SEASONALS ALL 1ST QTR=1.0 ZERO OTHERWISE	600 1	DUMMY, FIRST QUARTER SEASONALS ALL 1ST QTR=1.0 ZERO OTHERWISE	PERCENT	WHARTON E.F.A.

THE GLOSSARY OF MODEL VARIABLES FOR THE WHAPTON QUANTITATIVELY MODEL MARK 0.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
DUMY	230	E	SECOND QUARTER SEASONAL	ALL 2ND QTR=1.0	OTHERWISE
DUMY	231	E	THIRD QUARTER SEASONAL	ALL 3RD QTR=1.0	OTHERWISE
DUMY	150	E	50 STEEL STRIKE EFFECT	1.0 IN 59.17	0 OTHERWISE
DUMY	360	E	50 STEEL STRIKE EFFECT	1.0 IN 59.21	0 OTHERWISE
DUMY	400	F	BULZ CRISIS	1956.1-1957.3	0.0 ZERO OTHERWISE
DUMY	200	I	INTEREST RATE	1.0 WHEN IS IS GREATER THAN 11.	0.0 OTHERWISE
DUMY	55	E	TIME TREND	1948.1 = 1.0	
DUMY	437	E	CHANGE IN BUSINESS TAX LAWS	.33 IN 54.21	1.0 THEREAFTER
DUMY	438	E	CHANGE IN BUSINESS TAX LAWS	.33 IN 45.21	1.0 THEREAFTER
DUMY	600	E	FEDERAL PERSONAL INCOME TAX-ORIGINAL LOW INCOME ALLOWANCE		
DUMY	607	E	FEDERAL PERSONAL INCOME TAX-MODIFIED LOW INCOME ALLOWANCE		
DUMY	597	E	ADJUSTMENT TO EFFECTIVE CORP TAX RATES IN FORECAST		
DUMY	599	E	ADJUSTMENT TO STATUTORY PERSONAL TAX RATES IN FORECAST		
DUMY	600	E	BUDGET TABLE - STATISTICAL DISCREPANCY FOR EXPENDITURES=0.0		
DUMY	679	F	CHANGE IN TAX LAWS		
DUMY	600	E	IMPOSITION OF SURCHARGE		
DUMY	670	E	IMPOSITION OF SURCHARGE		
DUMY	100	E	1971.1-1.0 0 OTHERWISE		
DUMY	515	E	PROPORTION, FED RESERVE HOLDINGS OF OTHER U.S. SECURITIES TO TOTAL		
DUMY	540	F	CHANGE IN CONSUMER INSTALLMENT CREDIT OUTSTANDING		
DUMY	604	I	CONSUMER CREDIT OUTSTANDING, INSTALLMENT, TOTAL		
DUMY	50	F	CURRENCY IN CIRCULATION (IN THE HANDS OF THE PUBLIC)		
DUMY	252	I	COMMERCIAL BANKS, DEPOSITS, DEMAND, TOTAL		
DUMY	250	E	COMMERCIAL BANKS, DEPOSITS, U.S. GOVERNMENT DEMAND		
DUMY	6	I	COMMERCIAL BANKS, DEPOSITS, PRIVATE DEMAND		
DUMY	7	I	COMMERCIAL BANKS, DEPOSITS, TIME AND SAVINGS		
DUMY	6	F	COMMERCIAL BANKS, DEPOSITS, TIME & SAVINGS, \$100,000 OR OVER CD'S		
DUMY	262	F	COMMERCIAL BANKS, DEPOSITS, TIME & SAVINGS, OTHER		
DUMY	265	E	PERCENT OF ALL DEMAND DEPOSITS SUBJECT TO RESERVE REQUIREMENTS		
DUMY	268	F	PERCENT OF ALL TIME DEPOSITS SUBJECT TO RESERVE REQUIREMENTS		
DUMY	260	F	COMMERCIAL BANKS, LOANS, COMMERCIAL & INDUSTRIAL, TOTAL DEMAND		
DUMY	256	F	MONEY SUPPLY, LIMITED DEFINITION, CURRENCY PLUS PRIVATE DEMAND		
DUMY	121	I	MONEY SUPPLY, BROAD DEFINITION, FMS PLUS SAVINGS DEPOSITS		
DUMY	262	F	FED MEMBER BANKS, RESERVES, FREE		
DUMY	261	E	FED MEMBER BANKS, RESERVES, NONBORROWED		
DUMY	267	E	MAXIMUM INTEREST RATE PAYABLE, PASSBOOK SAVINGS ACCOUNTS		
DUMY	230	F	INTEREST RATE, EFFECTIVE, ON PASSBOOK SAVINGS AT COMMERCIAL BANK		
DUMY	260	F	RATE ON SHORT TERM BUSINESS LOANS (ALL SIZES), 35 CENTERS		
DUMY	153	E	MAXIMUM INTEREST RATE PAYABLE, \$100,000+ 3-6 MONTH CD'S		
DUMY	261	F	INTEREST RATE, 3-MONTH CD'S, SECONDARY MARKET		
DUMY	10	F	INTEREST RATE, 4-6 MONTH PRIME COMMERCIAL PAPER		
DUMY	17	F	YIELD, MONDO'S CORPORATE BONDS, TOTAL SEASONED ISSUES		
DUMY	200	I	IMPLICIT EXPECTED RATE OF CHANGE IN MONDO'S TOTAL SEASONED ISSUES		
DUMY	257	F	YIELD, NEW ISSU, CORPORATE AAA UTILITY BONDS		
DUMY	260	F	DISCOUNT RATE, FEDERAL RESERVE BANK OF NEW YORK		
DUMY	260	E	INTEREST RATE, 3-MONTH EURO-DOLLARS		
DUMY	233	E	INTEREST RATE, FEDERAL FUNDS		
DUMY	510	F	YIELD, U.S. GOVERNMENT LONG TERM BONDS		
DUMY	675	F	YIELD, MONDO'S AAA STATE & LOCAL BONDS		

THE GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 8.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
FRPRIME	671	R	PRIME RATE, LOANS BY LEADING CITY BANKS	PERCENT/ANNUUM	FBB A-12
FRNTRJMY	111	B	MARKET YIELD, 3-MONTH TAXABLE U.S. GOVERNMENT TREASURY BILLS	%/ANNUUM	FBB A-33
FRNED	246	E	EFFECTIVE RESERVE REQUIREMENT (% OF DEPOSITS), DEMAND DEPOSITS	PERCENT	FRR A-9
FRNET	243	L	EFFECTIVE RESERVE REQUIREMENT (% OF DEPOSITS), TIME DEPOSITS	PERCENT	SCR 1.2
GMP	16	I	GROSS NATIONAL PRODUCT	BILL CONSTANT \$	SCR 1.1
GMP5	238	I	GROSS NATIONAL PRODUCT	BILL CURRENT \$	SCR 1.1
GMP5PCPLAN	662	I	PEAK VALUE, PER CAPITA REAL GROSS NATIONAL PRODUCT	THOU CONSTANT \$	TRANSFORMATION
GMP5PUT	756	E	POTENTIAL GNP (% REAL GROWTH)	BILL CONSTANT \$	TRANSFORMATION
GVP5	222	I	FEDERAL GOVERNMENT EXPENDITURES, TOTAL	BILL CURRENT \$	SCR 3.2
GVP5B	227	I	STATE & LOCAL GOVERNMENT EXPENDITURES, TOTAL	BILL CURRENT \$	SCR 3.4
GVP5IAS	210	E	FEDERAL GOVT EXPENDITURES, GRANTS-IN-AID TO STATE & LOCAL GOVTS	BILL CURRENT \$	SCR 3.2
GVP5	211	I	FEDERAL GOVT EXPENDITURES OF GOODS AND SERVICES, FEDERAL	BILL CONSTANT \$	SCR 1.2
GVP5S	203	I	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL	BILL CURRENT \$	SCR 3.2
GVP5D	200	B	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL, DEFENSE	BILL CONSTANT \$	TRANSFORMATION
GVP5DS	204	B	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL, DEFENSE	BILL CURRENT \$	SCR 3.2
GVP5D	210	B	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL, NONDEFENSE	BILL CONSTANT \$	TRANSFORMATION
GVP5D	205	B	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL, NONDEFENSE	BILL CURRENT \$	SCR 3.2
GVP5S	212	B	GOVERNMENT PURCHASES OF GOODS AND SERVICES, STATE AND LOCAL	BILL CONSTANT \$	SCR 1.2
GVP5S	207	B	GOVERNMENT PURCHASES OF GOODS AND SERVICES, STATE AND LOCAL	BILL CURRENT \$	SCR 3.4
GVP5	47	I	GOVERNMENT PURCHASES OF GOODS & SERVICES, TOTAL	BILL CONSTANT \$	SCR 1.2
GVP5S	206	I	GOVERNMENT PURCHASES OF GOODS & SERVICES, DURABLE GOODS, AUTOS	BILL CURRENT \$	SCR 1.1
GVP5DAYS	612	E	FEDERAL GOVERNMENT RECEIPTS, TOTAL	BILL CURRENT \$	SCR 3.16
GVP5S	213	I	STATE & LOCAL GOVERNMENT RECEIPTS, TOTAL	BILL CURRENT \$	SCR 3.2
GVP5S	223	I	SUBSIDIES LESS CURRENT SURPLUS OF GOVERNMENT ENTERPRISES	BILL CURRENT \$	SCR 3.4
GVP5BTS	482	I	FEDERAL GOVT EXPENDITURES, SUBSIDIES - SURPLUS GOVT ENTERPRISES	BILL CURRENT \$	SCR 1.9
GVP5BTS	219	E	STATELOCAL GOVT EXPENDITURES, SUBSIDIES - SURPLUS GOVT ENTERPRISES	BILL CURRENT \$	SCR 3.2
GVP5BTS	230	E	FEDERAL GOVT, SURPLUS OR DEFICIT, NATIONAL INCOME & PRODUCT ACCT	BILL CURRENT \$	SCR 3.4
GVP5BTS	112	I	STATELOCAL GOVT, SURPLUS OR DEFICIT, NATIONAL INCOME & PRODUCT ACCT	BILL CURRENT \$	SCR 3.2
GVP5BTS	231	I	STATELOCAL GOVT, SURPLUS OR DEFICIT, NATIONAL INCOME & PRODUCT ACCT	BILL CURRENT \$	SCR 3.4
MOHTO	107	B	OCCUPIED HOUSING UNITS, OWNER, % OF YEAR-ROUND UNITS ON MARKET	PERCENT	CONSTRUC REV B-6
MOHTO	501	E	OCCUPIED HOUSING UNITS, RENTER, % OF YEAR-ROUND UNITS ON MARKET	PERCENT	CONSTRUC REV B-6
MOHTO	109	B	OCCUPIED HOUSING UNITS, RENTER, % OF YEAR-ROUND UNITS ON MARKET	PERCENT	CONSTRUC REV B-6
MSR	113	I	HOUSING STARTS, PRIVATE (INCLUDING FARM), TOTAL	MILLIONS	SCR 5-10
MSRPM	24	A	HOUSING STARTS, PRIVATE (INCL FARM), MULTIPLE UNIT STRUCTURES	MILLIONS	SCR 5-10
MSRPM	30	A	HOUSING STARTS, PRIVATE (INCL FARM), 1 UNIT STRUCTURES	MILLIONS	SCR 5-10
IAG	501	B	INVESTMENT, NEW PLANT & EQUIPMENT, FARM	BILL CONSTANT \$	TRANSFORMATION
IAGS	174	I	INVESTMENT, NEW PLANT & EQUIPMENT, FARM	BILL CURRENT \$	BEA-UNPUBLISHED
IACH	308	A	INVESTMENT, NEW PLANT & EQUIPMENT, COMMERCIAL & OTHER INDUSTRIES	BILL CONSTANT \$	TRANSFORMATION
IACHS	100	I	INVESTMENT, NEW PLANT & EQUIPMENT, COMMERCIAL & OTHER INDUSTRIES	BILL CURRENT \$	SCR EDD ISSUES
IACH	162	I	INVESTMENT, NEW PLANT & EQUIPMENT, MANUFACTURING INDUSTRIES	BILL CONSTANT \$	TRANSFORMATION
IACH	167	I	INVESTMENT, NEW PLANT AND EQUIP, MANUFACTURING & MINING	BILL CURRENT \$	TRANSFORMATION
IACH	500	I	INVESTMENT, NEW PLANT AND EQUIP, MANUFACTURING & MINING	BILL CURRENT \$	SCR EDD ISSUES
IACH	106	I	INVESTMENT, NEW PLANT & EQUIPMENT, MANUFACTURING INDUSTRIES	BILL CONSTANT \$	TRANSFORMATION
IACH	304	A	INVESTMENT, NEW PLANT & EQUIPMENT, DURABLE MANUFACTURING	BILL CURRENT \$	TRANSFORMATION
IACH	172	I	INVESTMENT, NEW PLANT & EQUIPMENT, DURABLE MANUFACTURING	BILL CONSTANT \$	SCR EDD ISSUES
IACH	303	B	INVESTMENT, NEW PLANT & EQUIPMENT, NONDURABLE MANUFACTURING	BILL CURRENT \$	TRANSFORMATION
IACH	173	I	INVESTMENT, NEW PLANT & EQUIPMENT, NONDURABLE MANUFACTURING	BILL CONSTANT \$	SCR EDD ISSUES
IACH	302	A	INVESTMENT, NEW PLANT & EQUIPMENT, MINING INDUSTRIES	BILL CURRENT \$	TRANSFORMATION
IACH	171	I	INVESTMENT, NEW PLANT & EQUIPMENT, MINING INDUSTRIES	BILL CONSTANT \$	SCR EDD ISSUES

VARIABLE	NUMBER TYPE	DESCRIPTION	UNITS	SOURCE
IARG	16A I	INVESTMENT, NEW PLANT & EQUIPMENT, REGULATED INDUSTRIES	BILL CONSTANT \$	TRANSFORMATION
IANGS	179 I	INVESTMENT, NEW PLANT & EQUIPMENT, REGULATED INDUSTRIES	BILL CURRENT \$	TRANSFORMATION
IARGC08	307 M	INVESTMENT, NEW PLANT & EQUIPMENT, COMMUNICATIONS	BILL CONSTANT \$	TRANSFORMATION
IARGC08S	177 I	INVESTMENT, NEW PLANT & EQUIPMENT, COMMUNICATIONS	BILL CURRENT \$	SCB EOD ISSUES
IARGT	305 S	INVESTMENT, NEW PLANT & EQUIPMENT, TRANSPORTATION INDUSTRIES	BILL CONSTANT \$	TRANSFORMATION
IARGTS	175 I	INVESTMENT, NEW PLANT & EQUIPMENT, TRANSPORTATION INDUSTRIES	BILL CURRENT \$	TRANSFORMATION
IARGU04	306 B	INVESTMENT, NEW PLANT & EQUIPMENT, PUBLIC UTILITIES	BILL CONSTANT \$	TRANSFORMATION
IARGU04S	170 I	INVESTMENT, NEW PLANT & EQUIPMENT, PUBLIC UTILITIES	BILL CURRENT \$	SCB EOD ISSUES
IALCM048	434 B	INVEST ANTIC, NEW PLANT&EQUIP, COMMERCIAL&COMMUN, 1 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALCM048S	618 B	INVEST ANTIC, NEW PLANT&EQUIP, COMMERCIAL&COMMUN, 1 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALMFD	305 S	INVEST ANTIC, NEW PLANT & EQUIP, DUR MFG, 1 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALMFD S	602 B	INVEST ANTICIPATION, NEW PLANT&EQUIP, MFG DURABLES, 1 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALMFN	423 R	INVEST ANTIC, NEW PLANT&EQUIP, NONDUR MFG, 1 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALMFNS	608 B	INVEST ANTICIPATION, NEW PLANT&EQUIP, MFG NONDUR, 1 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALMNG	58 R	INVEST ANTIC, NEW PLANT & EQUIP, MINING, 1QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALMNGS	604 R	INVEST ANTICIPATION, NEW PLANT&EQUIP, MINING, 1 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALMTG	505 B	INVEST ANTIC, NEW PLANT & EQUIP, TRANSPORT, 1 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALMTGS	606 B	INVEST ANTIC, NEW PLANT & EQUIP, TRANSPORT, 1 QTR AHEAD	BILL CURRENT \$	TRANSFORMATION
IALPMQU04	533 B	INVEST ANTIC, NEW PLANT&EQUIP, PUBLIC UTILITIES, 1 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALPMQU04S	608 R	INVEST ANTIC, NEW PLANT&EQUIP, PUBLIC UTILITIES, 1 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALPCM048	592 B	INVEST ANTIC, NEW PLANT&EQUIP, COMMERCIAL&COMMUN, 2 QTRS AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALPCM048S	611 B	INVEST ANTIC, NEW PLANT&EQUIP, COMMERCIAL&COMMUN, 2 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALZMFD	419 B	INVEST ANTIC, NEW PLANT & EQUIP, DUR MFG, 2 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALZMFD S	633 R	INVEST ANTICIPATION, NEW PLANT&EQUIP, MFG DURABLES, 2 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALZMFN	401 R	INVEST ANTIC, NEW PLANT&EQUIP, NONDUR MFG, 2 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALZMFNS	605 B	INVEST ANTICIPATION, NEW PLANT&EQUIP, MFG NONDUR, 2 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALZMG	176 B	INVEST ANTIC, NEW PLANT & EQUIP, MINING, 2 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALZMG S	601 B	INVEST ANTICIPATION, NEW PLANT&EQUIP, MINING, 2 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IALZPGT	506 R	INVEST ANTIC, NEW PLANT & EQUIP, TRANSPORT, 2 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALZPGTS	607 R	INVEST ANTIC, NEW PLANT & EQUIP, TRANSPORT, 2 QTR AHEAD	BILL CURRENT \$	TRANSFORMATION
IALZMU04	594 B	INVEST ANTIC, NEW PLANT&EQUIP, PUBLIC UTILITIES, 2 QTR AHEAD	BILL CONSTANT \$	TRANSFORMATION
IALZMU04S	609 R	INVEST ANTIC, NEW PLANT&EQUIP, PUBLIC UTILITIES, 2 QTR AHEAD	BILL CURRENT \$	SCB EOD ISSUES
IAR04	309 B	INVESTMENT, CONCEPTUAL DIFFERENCE, SEA SURVEY VS MIA ACCOUNTS	BILL CONSTANT \$	TRANSFORMATION
IAR04S	181 I	INVESTMENT, CONCEPTUAL DIFFERENCE, SEA SURVEY VS MIA ACCOUNTS	BILL CURRENT \$	TRANSFORMATION
IARF	181 I	INVESTMENT, FIXED, TOTAL	BILL CONSTANT \$	SCB 1,2
IARFS	193 I	INVESTMENT, FIXED, TOTAL	BILL CURRENT \$	SCB 1,1
IARFM	49 J	INVESTMENT, FIXED, NONRESIDENTIAL, TOTAL	BILL CONSTANT \$	SCB 1,2
IARFMS	188 I	INVESTMENT, FIXED, NONRESIDENTIAL, TOTAL	BILL CURRENT \$	SCB 1,1
IARFNE	178 M	INVESTMENT, FIXED, NONRESIDENTIAL, PRODUCERS' DURABLE EQUIPMENT	BILL CONSTANT \$	SCB 1,2
IARFNES	182 I	INVESTMENT, FIXED, NONRESIDENTIAL, PRODUCERS' DURABLE EQUIPMENT	BILL CURRENT \$	SCB 1,1
IARFNESAVNS	163 F	INVEST, FIXED, NONRESIDENTIAL, STRUCTURES	BILL CONSTANT \$	SCB 1,1
IARFNS	149 I	INVESTMENT, FIXED, NONRESIDENTIAL, STRUCTURES	BILL CURRENT \$	SCB 1,2
IARFNS S	185 I	INVESTMENT, FIXED, NONRESIDENTIAL, STRUCTURES	BILL CONSTANT \$	SCB 1,1
IARFN S	28 B	INVESTMENT, FIXED, RESTORENTIAL STRUCTURES, TOTAL	BILL CURRENT \$	SCB 1,2
IARFNS	190 I	INVESTMENT, FIXED, RESTORENTIAL STRUCTURES, TOTAL	BILL CONSTANT \$	SCB 1,1
IARFIS	198 B	CHANGE IN BUSINESS INVENTORIES, FARM	BILL CURRENT \$	SCB 1,2
IARFIS S	217 M	CHANGE IN BUSINESS INVENTORIES, FARM	BILL CURRENT \$	SCB 1,1
IARIM	46 B	CHANGE IN BUSINESS INVENTORIES, NONFARM	BILL CONSTANT \$	SCB 1,2
IARIMS	196 B	CHANGE IN BUSINESS INVENTORIES, NONFARM	BILL CURRENT \$	SCB 1,1

THE GLOSSARY OF MODEL VARIABLES FOR THE WHARTON QUARTERLY MODEL MARK 4.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
KINMRE	695	I	INVENTORY STOCK, WHOLESALE & RETAIL TRADE	BILL CONSTANT \$	TRANSFORMATION
KINMND	874	I	INVENTORY STOCK, WHOLESALE & RETAIL TRADE, DURABLE	BILL CONSTANT \$	TRANSFORMATION
KINMNDNA	857	D	INVENTORY STOCK, WHOLESALE & RETAIL TRADE, NON-AUTO DURABLE	BILL CONSTANT \$	TRANSFORMATION
KINMNRN	650	R	INVENTORY STOCK, WHOLESALE & RETAIL TRADE, NONDURABLE	BILL CONSTANT \$	TRANSFORMATION
KINMT	690	I	INVENTORY STOCK, TOTAL	BILL CONSTANT \$	SCB 3, 19
KINMTAV	45	I	INVENTORY STOCK, NONFARM, AUTOS	BILL CONSTANT \$	TRANSFORMATION
KICIFFMDS	880	D	BOOK VALUE, MFG INVENTORIES, BY STAGE, FINISHED GOODS, DURABLE	BILL CURRENT \$	CENSUS M3 REPORT
KICIFFMDS	853	R	BOOK VALUE, MFG INVENTORIES, BY STAGE, FINISHED GOODS, NONDURABLE	BILL CURRENT \$	CENSUS M3 REPORT
KICIFFMDS	849	D	BOOK VALUE, MFG INVENTORIES, BY STAGE, MATERIALS SUPPLY, DURABLE	BILL CURRENT \$	CENSUS M3 REPORT
KICIFFMDS	860	I	BOOK VALUE, MFG INVENTORIES, BY STAGE, MATERIALS SUPPLY, NONDURABLE	BILL CURRENT \$	CENSUS M3 REPORT
KICIFFMDS	838	D	BOOK VALUE, MFG INVENTORIES, BY STAGE, WORK IN PROGRESS, DURABLE	BILL CURRENT \$	CENSUS M3 REPORT
KICIFFMDS	851	I	BOOK VALUE, MFG INVENTORIES, BY STAGE, WORK IN PROGRESS, NONDURABLE	BILL CURRENT \$	CENSUS M3 REPORT
KICIFFMDS	870	D	BOOK VAL, MFG INV, BY STAGE, WORK IN PROG + MAT & SUP, NONDUR	CURRENT \$	TRANSFORMATION
KMGMP	263	I	STOCK OF REAL WEALTH	BILL CONSTANT \$	TRANSFORMATION
LNTRG	335	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, AG, FORESTRY & FISH	YEARS	INTERPOLATED
LNTRG	342	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, COMMERCIAL & OTHER	YEARS	INTERPOLATED
LNTRG	330	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, DURABLE MANUFACTURING	YEARS	INTERPOLATED
LNTRG	337	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, NONDURABLE MANUFACTURING	YEARS	INTERPOLATED
LNTRG	336	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, MINING	YEARS	INTERPOLATED
LNTRG	341	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, COMMUNICATIONS	YEARS	INTERPOLATED
LNTRG	339	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, TRANSPORTATION	YEARS	INTERPOLATED
LNTRG	340	E	TAX LIFE, EFFECTIVE, EQUIPMENT & STRUCTURES, UTILITIES	YEARS	INTERPOLATED
LNTRG	669	R	RATION, MATERIAL & SUPPLIES INVENTORIES / WORK IN PROGRESS, NONDUR	RATIO	TRANSFORMATION
MONETARYINST	420	E	DUMMY FOR MONETARY INSTRUMENTS		WHARTON E.F.A.
NETT	470	I	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, TOTAL	MILLIONS	EMPLOYEARN 8-5
NETT	408	R	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, CONTRACT CONSTRUCTION	MILLIONS	EMPLOYEARN 8-5
NETT	474	I	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, COMMERCIAL	MILLIONS	TRANSFORMATION
NETT	409	D	EMPLOYEES ON NONAG PAYROLLS, FINANCE, INSURANCE, REAL ESTATE	MILLIONS	EMPLOYEARN 8-5
NETT	102	I	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, GOVERNMENT	MILLIONS	EMPLOYEARN 8-5
NETT	400	F	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, GOVERNMENT, FEDERAL	MILLIONS	EMPLOYEARN 8-5
NETT	511	E	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, GOVERNMENT, STATE & LOCAL	MILLIONS	EMPLOYEARN 8-5
NETT	40	R	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, DURABLE MANUFACTURING	MILLIONS	EMPLOYEARN 8-5
NETT	42	R	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, NONDURABLE MANUFACTURING	MILLIONS	EMPLOYEARN 8-5
NETT	410	R	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, MINING	MILLIONS	EMPLOYEARN 8-5
NETT	44	R	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, TRANS & PUBLIC UTILITIES	MILLIONS	EMPLOYEARN 8-5
NETT	87	D	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, SERVICES	MILLIONS	EMPLOYEARN 8-5
NETT	86	R	EMPLOYEES ON NONAGRICULTURAL PAYROLLS, WHOLESALE & RETAIL TRADE	MILLIONS	EMPLOYEARN 8-5
NETT	90	R	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, TOTAL	MILLIONS	EMPLOYEARN A-31
NETT	832	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, TOTAL	MILLIONS	TRANSFORMATION
NETT	817	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 16 - 19 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	818	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 20 - 24 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	819	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 25 - 34 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	820	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 35 - 44 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	821	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 45 - 54 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	822	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 55 - 64 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	823	I	CIVILIAN LABOR FORCE, EMPLOYED, FEMALES, 65 YEARS & OLDER	MILLIONS	TRANSFORMATION
NETT	811	I	CIVILIAN LABOR FORCE, EMPLOYED, MALES, TOTAL	MILLIONS	TRANSFORMATION
NETT	810	I	CIVILIAN LABOR FORCE, EMPLOYED, MALES, 16 - 19 YEARS OLD	MILLIONS	TRANSFORMATION
NETT	811	I	CIVILIAN LABOR FORCE, EMPLOYED, MALES, 20 - 24 YEARS OLD	MILLIONS	TRANSFORMATION

THE GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 4.7

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VARIABLE	NUMBER TYPE	DESCRIPTION	UNIT	SOURCE
MANHOURS, FINANCE, INSURANCE AND REAL ESTATE	376 B	MANHOURS, FINANCE, INSURANCE AND REAL ESTATE	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, GOVERNMENT SECTOR	376 J	MANHOURS, GOVERNMENT SECTOR	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, DURABLE MANUFACTURING	376 K	MANHOURS, DURABLE MANUFACTURING	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, NONDURABLE MANUFACTURING	376 L	MANHOURS, NONDURABLE MANUFACTURING	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, MINING INDUSTRIES	376 M	MANHOURS, MINING INDUSTRIES	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, PRIVATE SECTOR	376 N	MANHOURS, PRIVATE SECTOR	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, REGULATED INDUSTRIES	376 O	MANHOURS, REGULATED INDUSTRIES	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, SERVICES	376 P	MANHOURS, SERVICES	BILLIONS/YEAR	TRANSFORMATION
MANHOURS, WHOLESALE AND RETAIL TRADE	376 Q	MANHOURS, WHOLESALE AND RETAIL TRADE	BILLIONS/YEAR	TRANSFORMATION
NET NATIONAL PRODUCT	376 R	NET NATIONAL PRODUCT	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 16-19	704 E	CIV NONINSTITUTIONAL POPULATION, FEMALES, 16-19	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 20-24	704 F	CIV NONINSTITUTIONAL POPULATION, FEMALES, 20-24	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 25-34	704 G	CIV NONINSTITUTIONAL POPULATION, FEMALES, 25-34	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 35-44	704 H	CIV NONINSTITUTIONAL POPULATION, FEMALES, 35-44	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 45-54	704 I	CIV NONINSTITUTIONAL POPULATION, FEMALES, 45-54	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 55-64	704 J	CIV NONINSTITUTIONAL POPULATION, FEMALES, 55-64	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, FEMALES, 65 & OVER	704 K	CIV NONINSTITUTIONAL POPULATION, FEMALES, 65 & OVER	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 16-19	697 E	CIV NONINSTITUTIONAL POPULATION, MALES, 16-19	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 20-24	697 F	CIV NONINSTITUTIONAL POPULATION, MALES, 20-24	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 25-34	697 G	CIV NONINSTITUTIONAL POPULATION, MALES, 25-34	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 35-44	697 H	CIV NONINSTITUTIONAL POPULATION, MALES, 35-44	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 45-54	697 I	CIV NONINSTITUTIONAL POPULATION, MALES, 45-54	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 55-64	697 J	CIV NONINSTITUTIONAL POPULATION, MALES, 55-64	BILLIONS	SCB 1.9
CIV NONINSTITUTIONAL POPULATION, MALES, 65 & OVER	697 K	CIV NONINSTITUTIONAL POPULATION, MALES, 65 & OVER	BILLIONS	SCB 1.9
FERTILITY RATE OF WOMEN, 16 & OVER	737 E	FERTILITY RATE OF WOMEN, 16 & OVER	NO. PER 1000	MON VITAL STAT
BIRTH RATE BY AGE OF MOTHER, AGES 15-19	731 E	BIRTH RATE BY AGE OF MOTHER, AGES 15-19	NO. PER 1000	MON VITAL STAT
BIRTH RATE BY AGE OF MOTHER, AGES 20-24	731 F	BIRTH RATE BY AGE OF MOTHER, AGES 20-24	NO. PER 1000	MON VITAL STAT
BIRTH RATE BY AGE OF MOTHER, AGES 25-34	731 G	BIRTH RATE BY AGE OF MOTHER, AGES 25-34	NO. PER 1000	MON VITAL STAT
BIRTH RATE BY AGE OF MOTHER, AGES 35-44	731 H	BIRTH RATE BY AGE OF MOTHER, AGES 35-44	NO. PER 1000	MON VITAL STAT
SCHOOL ENROLLMENT RATE, FEMALES, AGES 16-19	729 E	SCHOOL ENROLLMENT RATE, FEMALES, AGES 16-19	PERCENT	TRANSFORMATION
SCHOOL ENROLLMENT RATE, MALES, AGES 16-19	729 F	SCHOOL ENROLLMENT RATE, MALES, AGES 16-19	PERCENT	TRANSFORMATION
SCHOOL ENROLLMENT RATE, MALES, AGES 20-24	729 G	SCHOOL ENROLLMENT RATE, MALES, AGES 20-24	PERCENT	TRANSFORMATION
U.S. POPULATION, TOTAL, MID-OTR ESTIMATE	31 E	U.S. POPULATION, TOTAL, MID-OTR ESTIMATE	MILLIONS	SCB 2.1
POPULATION, NONINSTITUTIONAL, 16YRS AND OVER, INCL ARMED FORCES	556 E	POPULATION, NONINSTITUTIONAL, 16YRS AND OVER, INCL ARMED FORCES	MILLIONS	CUR POP REP P-25
TOTAL POPULATION, AGE 5-15	539 E	TOTAL POPULATION, AGE 5-15	MILLIONS	73 EMP TABLE C23
U.S. POPULATION, AGES 16 THROUGH 19 YEARS	725 E	U.S. POPULATION, AGES 16 THROUGH 19 YEARS	MILLIONS	73 EMP TABLE C1
LABOR FORCE PARTICIPATION RATE, FEMALES, TOTAL	696 I	LABOR FORCE PARTICIPATION RATE, FEMALES, TOTAL	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 16-19	767 I	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 16-19	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 20-24	767 J	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 20-24	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 25-34	767 K	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 25-34	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 35-44	767 L	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 35-44	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 45-54	767 M	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 45-54	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 55-64	767 N	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 55-64	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 65 & OVER	767 O	LABOR FORCE PARTICIPATION RATE, FEMALES, AGES 65 & OVER	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, TOTAL	696 J	LABOR FORCE PARTICIPATION RATE, MALES, TOTAL	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 16-19	768 J	LABOR FORCE PARTICIPATION RATE, MALES, AGES 16-19	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 20-24	768 K	LABOR FORCE PARTICIPATION RATE, MALES, AGES 20-24	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 25-34	768 L	LABOR FORCE PARTICIPATION RATE, MALES, AGES 25-34	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 35-44	768 M	LABOR FORCE PARTICIPATION RATE, MALES, AGES 35-44	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 45-54	768 N	LABOR FORCE PARTICIPATION RATE, MALES, AGES 45-54	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 55-64	768 O	LABOR FORCE PARTICIPATION RATE, MALES, AGES 55-64	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, MALES, AGES 65 & OVER	768 P	LABOR FORCE PARTICIPATION RATE, MALES, AGES 65 & OVER	FRACTION	TRANSFORMATION
LABOR FORCE PARTICIPATION RATE, INTERPOLATED YEAR TO YEAR	559 E	LABOR FORCE PARTICIPATION RATE, INTERPOLATED YEAR TO YEAR	PERCENT	TRANSFORMATION

THE GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 4.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
NRL16	766	I	LABOR FORCE PARTICIPATION RATE, MALES, TOTAL	FRACTION	TRANSFORMATION
NRL16.19	752	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 16-19	FRACTION	TRANSFORMATION
NRL16.20-24	753	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 20-24	FRACTION	TRANSFORMATION
NRL16.25-34	754	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 25-34	FRACTION	TRANSFORMATION
NRL16.35-44	755	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 35-44	FRACTION	TRANSFORMATION
NRL16.45-54	756	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 45-54	FRACTION	TRANSFORMATION
NRL16.55-64	757	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 55-64	FRACTION	TRANSFORMATION
NRL16.65+	758	I	LABOR FORCE PARTICIPATION RATE, MALES, AGES 65 & OLDER	FRACTION	TRANSFORMATION
NRL16.19	768	I	LABOR FORCE PARTICIPATION RATE, AGES 16-19	FRACTION	TRANSFORMATION
NRL16.20-24	769	I	LABOR FORCE PARTICIPATION RATE, AGES 20-24	FRACTION	TRANSFORMATION
NRL16.25-34	770	I	LABOR FORCE PARTICIPATION RATE, AGES 25-34	FRACTION	TRANSFORMATION
NRL16.35-44	771	I	LABOR FORCE PARTICIPATION RATE, AGES 35-44	FRACTION	TRANSFORMATION
NRL16.45-54	772	I	LABOR FORCE PARTICIPATION RATE, AGES 45-54	FRACTION	TRANSFORMATION
NRL16.55-64	773	I	LABOR FORCE PARTICIPATION RATE, AGES 55-64	FRACTION	TRANSFORMATION
NRL16.65+	774	I	LABOR FORCE PARTICIPATION RATE, AGES 65 & OVER	FRACTION	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, CIVILIAN LABOR FORCE	PERCENT	EMPLOYEARN A-34
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES, TOTAL	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 16-19	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 20-24	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 25-34	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 35-44	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 45-54	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 55-64	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, FEMALES 65 & OVER	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES, TOTAL	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES, AGES 16-19	PERCENT	EMPLOYEARN A-36
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES 20-24	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES 25-34	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES 35-44	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES 45-54	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES 55-64	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, MALES 65 & OVER	PERCENT	BLS
NRL16.65+	774	I	UNEMPLOYMENT RATE, TOTAL	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 16-19	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 20-24	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 25-34	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 35-44	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 45-54	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 55-64	PERCENT	TRANSFORMATION
NRL16.65+	774	I	UNEMPLOYMENT RATE, BOTH SEXES, AGES 65 & OLDER	PERCENT	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, TOTAL	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, TOTAL	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 16-19	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 20-24	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 25-34	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 35-44	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 45-54	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 55-64	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, FEMALES, AGES 65 & OLDER	MILLIONS	TRANSFORMATION
NRL16.65+	774	I	CIVILIAN LABOR FORCE, UNEMPLOYED, TOTAL	THOUSANDS	TRANSFORMATION

THE GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUANTITATIVE MODEL MARK 4.7

VARIABLE	NUMBER TYPE	DESCRIPTION	UNITS	SOURCE
NUTM	796 I	CIVILIAN LABOR FORCE, UNEMPLOYED MALES	MILLIONS	TRANSFORMATION
NUTM16.19	775 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 16-19	MILLIONS	TRANSFORMATION
NUTM20.24	776 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 20-24	MILLIONS	TRANSFORMATION
NUTM25.34	777 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 25-34	MILLIONS	TRANSFORMATION
NUTM35.44	778 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 35-44	MILLIONS	TRANSFORMATION
NUTM45.54	779 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 45-54	MILLIONS	TRANSFORMATION
NUTM55.64	780 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 55-64	MILLIONS	TRANSFORMATION
NUTM65	781 I	CIVILIAN LABOR FORCE, UNEMPLOYED, MALES, AGES 65 & OVER	MILLIONS	TRANSFORMATION
NUTM16.19	789 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 16-19	MILLIONS	TRANSFORMATION
NUTM20.24	790 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 20-24	MILLIONS	TRANSFORMATION
NUTM25.34	791 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 25-34	MILLIONS	TRANSFORMATION
NUTM35.44	792 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 35-44	MILLIONS	TRANSFORMATION
NUTM45.54	793 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 45-54	MILLIONS	TRANSFORMATION
NUTM55.64	794 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 55-64	MILLIONS	TRANSFORMATION
NUTM65	795 I	CIVILIAN LABOR FORCE, UNEMPLOYED, AGES 65 & OVER	MILLIONS	TRANSFORMATION
ORNGCGS	867 I	NEW ORDERS NET, CAPITAL GOODS INDUSTRIES	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	873 E	NEW ORDERS NET, CAPITAL GOODS, DEFENSE	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	863 B	NEW ORDERS NET, CAPITAL GOODS, NONDEFENSE	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	865 B	NEW ORDERS NET, CONSUMER DURABLE GOODS	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	870 I	NEW ORDERS NET, MANUFACTURING	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	850 I	NEW ORDERS NET, MANUFACTURING, DURABLES	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	877 I	NEW ORDERS NET, MFG DURABLES, NON-AUTO	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	866 B	NEW ORDERS NET, MFG, OTHER DURABLES	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	845 B	VALUE, MANUFACTURERS' NEW ORDERS, NONDURABLE GOODS INDUSTRIES	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	877 I	SHIPMENTS, MANUFACTURING, TOTAL	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	852 I	SHIPMENTS, MANUFACTURING, DURABLES	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	871 A	SHIPMENTS MFG, DURABLES, NON-AUTO	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	864 B	VALUE, MFG SHIPMENTS, DURABLE, TRANS EQUIP, MOTOR VEH & PARTS	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	844 B	VALUE, MANUFACTURERS' SHIPMENTS, NONDURABLE GOODS INDUSTRIES	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	861 I	UNFILLED ORDERS, MANUFACTURERS'	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	841 B	ORDERS, UNFILLED, DURABLE MANUFACTURERS', TOTAL, EQO	BILL CURRENT \$	CENSUS M3 REPORT
ORNGCGS	846 B	VALUE, MANUFACTURERS' UNFILLED ORDERS, NONDURABLE GOODS INDS	BILL CURRENT \$	CENSUS M3 REPORT
PC	373 B	CONSUMER PRICE INDEX, U.S., ALL ITEMS	1967 = 100.	BL5 CPI REPORT
PCCPA	79 B	CONSUMER PRICE INDEX, U.S., FOOD	1967 = 100.	BL5 CPI REPORT
PCSA	201 B	CONSUMER PRICE INDEX, U.S., SERVICES	1967 = 100.	BL5 CPI REPORT
PCSB	425 B	U.S. CONSUMER PRICE INDEX, RENT	1972 = 100.	BL5 CPI REPORT
PCSD72	33 I	CONSUMER PRICE INDEX, U.S., SERVICES, RENT	1972 = 100.	SCB 7.11
PDCE	147 I	IMPLICIT DEFATOR, PERSONAL CONSUMPTION EXPENDITURES	1972 = 100.	SCB 7.11
PDCE04	152 I	IMPLICIT DEFATOR, PERSONAL CONSUMPTION, DURABLES, AUTOS & PARTS	1972 = 100.	SCB 7.11
PDCE04VII	11 A	IMPLICIT DEFATOR, PERSONAL CONSUMPTION, DURABLES, AUTOS & PARTS	1972 = 100.	TRANSFORMATION
PDCE04V	15 B	IMPLICIT DEFATOR, PERS CONSUMP, DURABLES, AUTOSPARTS, NEW CARS	1972 = 100.	TRANSFORMATION
PDCE04V	130 E	IMPLICIT DEFATOR, PERS CONSUMP, DURABLES, AUTOSPARTS, REC VEHICLES	1972 = 100.	TRANSFORMATION
PDCE04V	216 E	IMPLICIT DEFATOR, PERS CONSUMP, DURABLES, AUTOSPARTS, NEW/USED TRUCKS	1972 = 100.	TRANSFORMATION
PDCE04V	141 A	IMPLICIT DEFATOR, PERS CONSUMP, DURABLES, FURNITURE/HSHLD EQUIP	1972 = 100.	SCB 7.11
PDCE04V	20 A	IMPLICIT DEFATOR, PERS CONSUMP, DURABLES, OTHER DURABLES	1972 = 100.	SCB 7.11
PDCE04V	134 I	IMPLICIT DEFATOR, PERSONAL CONSUMPTION EXPEND, NONDURABLES	1972 = 100.	SCB 7.11
PDCE04V	24 A	IMPLICIT DEFATOR, PERS CONSUMP, NONDURABLES, CLOTHING & SHOES	1972 = 100.	SCB 7.11
PDCE04V	22 B	IMPLICIT DEFATOR, PERS CONSUMP, NONDURABLES, FOOD AND BEVERAGES	1972 = 100.	SCB 7.11

THE GLOSSARY OF MODEL VARIABLES FOR THE WHARTON QUARTERLY MODEL MARK 4.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
POENG	100	B	IMPLICIT DEFATOR, PERS CONSUM, NONDURABLES, GASOLINE AND OIL	1972 = 100	SCB 7.11
POENG04H	115	B	IMPLICIT DEFATOR, PERS CONSUM, NONDURABLES, OTHER NONDURABLES	1972 = 100	TRANSFORMATION
POENG	135	I	IMPLICIT DEFATOR, PERSONAL CONSUMPTION EXPENDITURES, SERVICES	1972 = 100	SCB 7.11
POENG	119	B	IMPLICIT DEFATOR, PERSONAL CONSUMPTION, SERVICES, HOUSING	1972 = 100	SCB 7.11
POENG	131	B	IMPLICIT DEFATOR, PERS CONSUM, SERVICES, OTHER SERVICES	1972 = 100	SCB 7.11
POENG	120	B	IMPLICIT DEFATOR, PERS CONSUM, SERVICES, HOUSEHOLD OPERATION	1972 = 100	SCB 7.11
POENG	26	B	IMPLICIT DEFATOR, PERS CONSUM, SERVICES, TRANSPORTATION	1972 = 100	SCB 7.11
POENG	70	I	IMPLICIT DEFATOR, GROSS NATIONAL PRODUCT	1972 = 100	SCB 7.11
POENG	209	I	IMPLICIT DEFATOR, GOVT PURCHASES OF GOODS & SERVICES, FEDERAL	1972 = 100	SCB 7.11
POENG	310	B	IMPLICIT DEFATOR, GOVT PURCHASES OF GOODS & SERVICES, FEDERAL, NON-COMPENSATION	1972 = 100	TRANSFORMATION
POENG	232	I	IMPLICIT DEFATOR, GOVT PURCHASES OF GOODS & SERVICES, STATELOCAL	1972 = 100	SCB 7.11
POENG	519	A	IMPLICIT DEFATOR, GOVT PURCHASES OF GOODS & SERVICES, NON-COMPENSATION	1972 = 100	TRANSFORMATION
POENG	59	I	IMPLICIT DEFATOR, GOVERNMENT PURCHASES OF GOODS AND SERVICES	1972 = 100	SCB 7.11
POENG	150	I	IMPLICIT DEFATOR, FIXED INVESTMENT, NONRESIDENTIAL, TOTAL	1972 = 100	SCB 7.11
POENG	103	B	IMPLICIT DEFATOR, FIXED INVEST, NONRESIDENTIAL, PRODUCERS EQUIP	1972 = 100	SCB 7.11
POENG	230	B	IMPLICIT DEFATOR, FIXED INVEST, NONRESIDENTIAL, STRUCTURES	1972 = 100	SCB 7.11
POENG	300	B	IMPLICIT DEFATOR, FIXED INVEST, RESIDENTIAL STRUCTURES, TOTAL	1972 = 100	SCB 7.11
POENG	32	B	IMPLICIT DEFATOR, INVENTORY STOCK, NON FARM	1972 = 100	TRANSFORMATION
POENG	860	B	IMPLICIT DEFATOR, INVENTORY STOCK, MFG DURABLES	1972 = 100	TRANSFORMATION
POENG	861	B	IMPLICIT DEFATOR, INVENTORY STOCK, MFG NONDURABLE	1972 = 100	TRANSFORMATION
POENG	862	B	IMPLICIT DEFATOR, INVENTORY STOCK, MFG DURABLE	1972 = 100	TRANSFORMATION
POENG	834	B	IMPLICIT DEFATOR, INVENTORY STOCK, STAGE OF PROCESS, MFG DURABLE	1972 = 100	TRANSFORMATION
POENG	854	B	IMPLICIT DEFATOR, INVENTORY STOCK, STAGE OF PROCESS, MFG NONDUR	1972 = 100	TRANSFORMATION
POENG	520	B	IMPLICIT DEFATOR, GNP ORIG (COMPENSATION), GEN GOVT, FEDERAL	1972 = 100	SCB 7.5
POENG	510	I	IMPLICIT DEFATOR, GNP ORIG (COMPENSATION), GENERAL GOVERNMENT	1972 = 100	SCB 7.5
POENG	521	A	IMPLICIT DEFATOR, GNP ORIG (COMPENSATION), GEN GOVT, ST & LOCAL	1972 = 100	SCB 7.5
POENG	105	E	PRICES PAID BY FARMERS, ALL COMMODITIES AND SERVICES	1910-1000	SCB 8-7
POENG	235	E	PRICES RECEIVED BY FARMERS, ALL FARM PRODUCTS	1910-1000	SCB 8-7
POENG	509	B	IMPLICIT DEFATOR, U.S. EXPORTS OF GOODS AND SERVICES	1972 = 100	SCB 7.11
POENG	457	B	UNIT VALUE INDEX, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100	OUR TABLE 5
POENG	403	B	UNIT VALUE INDEX, U.S. DOM EXPORTS, MTD AVG, CRUDE & MFG'D FOODS	1972 = 100	OUR TABLE 5
POENG	404	B	UNIT VALUE INDEX, U.S. DOMESTIC EXPORTS, MANUFACTURED FOODS	1972 = 100	OUR TABLE 5
POENG	451	B	UNIT VALUE INDEX, U.S. DOM EXPORTS, MTD AVG, FINISHED & SEMI MFG	1972 = 100	TRANSFORMATION
POENG	406	E	IMPLICIT DEFATOR, U.S. IMPORTS OF GOODS AND SERVICES	1972 = 100	MDS SPEC TABLE B
POENG	430	E	UNIT VALUE INDEX, U.S. GENERAL IMPORTS, CRUDE MATERIALS	1972 = 100	OUR TABLE 5
POENG	202	E	UNIT VALUE INDEX, U.S. GEN IMPORTS, AVERAGE, CRUDE & MFG'D FOODS	1972 = 100	OUR TABLE 5
POENG	204	E	UNIT VALUE INDEX, U.S. GENERAL IMPORTS, FINISHED MANUFACTURES	1972 = 100	OUR TABLE 5
POENG	459	B	U.S. DOMESTIC FUEL PRICE INDEX (FOR EXPORTS), COAL & CRUDE PETRO	1967 = 100	TRANSFORMATION
POENG	117	B	UNIT VALUE INDEX, AVERAGE PRICE OF NEW CAR	THOU CURRENT	TRANSFORMATION
POENG	271	B	WHOLESALE PRICE INDEX, U.S. ALL COMMODITIES	1967 = 100	BLB MPI REPORT
POENG	236	B	WHOLESALE PRICE INDEX, U.S. BY DURABILITY, TOTAL MANUFACTURES	1967 = 100	BLB MPI REPORT
POENG	042	B	MPI, BY DURABILITY, DURABLE MANUFACTURES	1967 = 100	BLB MPI REPORT
POENG	043	I	MPI, BY DURABILITY, DURABLE MANUFACTURES	1967 = 100	BLB MPI REPORT
POENG	047	B	MPI, BY DURABILITY, NONDURABLE MANUFACTURES, N.S.A.	1967 = 100	BLB MPI REPORT
POENG	048	I	MPI, BY DURABILITY, NONDURABLE MANUFACTURES, N.S.A.	1967 = 100	BLB MPI REPORT
POENG	520	A	WHOLESALE PRICE INDEX, BY PROCESSING, CRUDE MATERIALS	1967 = 100	BLB MPI REPORT
POENG	551	A	WHOLESALE PRICE INDEX, BY PROCESSING, FINISHED GOODS	1967 = 100	BLB MPI REPORT
POENG	552	A	WHOLESALE PRICE INDEX, BY PROCESSING, FINISHED GOODS, CONSUMER	1967 = 100	BLB MPI REPORT

THE GLOSSARY OF MODEL VARIABLES FOR THE WASHINGTON QUARTERLY MODEL MARK 8.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
PHPPA	553	A	WHOLESALE PRICE INDEX, BY PROCESSING, FINISHED GOODS, PRODUCER	1967 = 100.	OLS MPI REPORT
PHPPB	550	A	WHOLESALE PRICE INDEX, BY PROCESSING, INTERMEDIATE MATERIALS	1967 = 100.	OLS MPI REPORT
PRAG	360	B	OUTPUT, PRICE DEFLATOR, AGRICULTURE, FORESTRY & FISHERIES	1972 = 100.	TRANSFORMATION
PRCH	289	A	OUTPUT, PRICE DEFLATOR, CONTRACT CONSTRUCTION	1972 = 100.	TRANSFORMATION
PRCM	367	I	IMPLICIT DEFLATOR, GROSS PROD ORIG, COMMERCIAL (CC+MR+SV+FI)	1972 = 100.	TRANSFORMATION
PRFI	291	B	OUTPUT, PRICE DEFLATOR, FINANCE, INSURANCE & REAL ESTATE	1972 = 100.	TRANSFORMATION
PRGV	293	I	OUTPUT, PRICE DEFLATOR, GOVERNMENT & GOVERNMENT ENTERPRISES	1972 = 100.	TRANSFORMATION
PRGVF	110	E	IMPLICIT DEFLATOR, GROSS PROD ORIG, FED, ST & LOCAL GOVT ENTERP	1972 = 100.	TRANSFORMATION
PRHFD	284	I	IMPLICIT DEFLATOR, GROSS PROD ORIG, MANUFACTURING	1972 = 100.	TRANSFORMATION
PRHFM	362	B	OUTPUT, PRICE DEFLATOR, MANUFACTURING, DURABLES	1972 = 100.	TRANSFORMATION
PRHFC	363	B	OUTPUT, PRICE DEFLATOR, MANUFACTURING, NONDURABLES	1972 = 100.	TRANSFORMATION
PRP	361	E	IMPLICIT DEFLATOR, GROSS PROD ORIG, MINING	1972 = 100.	TRANSFORMATION
PRPG	532	I	IMPLICIT DEFLATOR, GNP ORIGINATING, PRIVATE SECTOR	1972 = 100.	TRANSFORMATION
PRPGC48	91	I	IMPLICIT DEFLATOR, GROSS PROD ORIG, REGULATED (MSTANGU49+RGC48)	1972 = 100.	TRANSFORMATION
PRPGT	360	B	OUTPUT, PRICE DEFLATOR, COMMUNICATIONS	1972 = 100.	TRANSFORMATION
PRPGU49	360	B	OUTPUT, PRICE DEFLATOR, TRANSPORTATION	1972 = 100.	TRANSFORMATION
PRM	295	E	OUTPUT, PRICE DEFLATOR, ELECTRIC, GAS & SANITARY SERVICES	1972 = 100.	TRANSFORMATION
PRSV	292	B	OUTPUT, PRICE DEFLATOR, SERVICES	1972 = 100.	TRANSFORMATION
PRSR	290	B	OUTPUT, PRICE DEFLATOR, WHOLESALE & RETAIL TRADE	1972 = 100.	TRANSFORMATION
RAZMPV	661	I	REAL OUTPUT PER MANHOUR, PRIVATE	CONSTANT \$	TRANSFORMATION
RETS	691	I	UNDISTRIBUTED CORPORATE PROFITS, TOTAL	BILL CURRENT \$	SCB 1-13
REXA	627	F	EXCHANGE RATE, U.S. CENTS PER CANADIAN DOLLAR	CENTS/UNIT	FED A-90
REXA	630	F	EXCHANGE RATE, U.S. CENTS PER FRENCH FRANC	CENTS/UNIT	FED A-90
REXF	632	E	EXCHANGE RATE, U.S. CENTS PER GERMAN MARK	CENTS/UNIT	FED A-90
REXT	631	F	EXCHANGE RATE, U.S. CENTS PER ITALIAN LIRE	CENTS/UNIT	FED A-90
REXA	633	F	EXCHANGE RATE, U.S. CENTS PER JAPANESE YEN	CENTS/UNIT	FED A-90
REXE	628	E	EXCHANGE RATE, U.S. CENTS PER MEXICAN PESO	CENTS/UNIT	FED A-90
REXK	629	E	EXCHANGE RATE, U.S. CENTS PER ENGLISH POUND	CENTS/UNIT	FED A-90
REXA	561	I	WEIGHTED AVERAGE, EXCHANGE RATE INDEX IN 6 COUNTRIES (IMPORT MT)	1950 = 100.	TRANSFORMATION
SABRDV	13	A	SALES, RETAIL, NEW PASSENGER CARS, DOMESTIC PLUS IMPORTS	MILLIONS	TRANSFORMATION
SOS	73	E	STATISTICAL DISCREPANCY	BILL CURRENT \$	SCB 1-7
SUPICVS	580	E	COMP OF EMPLOYEES, SUPPLEMENTS, GOVT & GOVT ENTERPRISES	BILL CURRENT \$	TRANSFORMATION
SUPIS	472	I	COMPENSATION OF EMPLOYEES, SUPPLEMENTS TO WAGES & SALARIES	BILL CURRENT \$	SCB 1-13
SUPIS	370	I	COMP OF EMPLOYEES, SUPPLEMENTS, EMPLOYER CONTRIB FOR SOCIAL INS	BILL CURRENT \$	SCB 1-13
SUPIS	473	A	COMP OF EMPLOYEES, SUPPLEMENTS, OTHER LABOR INCOME	BILL CURRENT \$	SCB 1-13
TRH	660	I	NET EXPORTS OF GOODS AND SERVICES	BILL CONSTANT \$	SCB 1-2
TRHS	659	I	NET EXPORTS OF GOODS AND SERVICES	BILL CURRENT \$	SCB 1-1
TRCS	650	I	NET EXPORTS OF GOODS, TRACS & TRCGS - TRCGTS	BILL CURRENT \$	TRANSFORMATION
TRH	50	I	U.S. EXPORTS OF GOODS AND SERVICES	BILL CONSTANT \$	SCB 1-2
TRHS	270	I	U.S. EXPORTS OF GOODS AND SERVICES	BILL CURRENT \$	SCB 1-1
TRCS	651	F	U.S. EXPORTS, ADJ FACTOR FOR PERIODS WHEN TRCS(BOP) NE TRCS(MIA)	BILL CURRENT \$	TRANSFORMATION
TRCS	650	E	U.S. EXPORTS, CONCEPTUAL ADJ BETWEEN CENSUS (TRCGS) & BOP MERCH	BILL CURRENT \$	TRANSFORMATION
TRHSD	502	F	U.S. EXPORTS, TRANSFERS UNDER U.S. MILITARY AGENCY SALE CONTRACT	BILL CURRENT \$	TRANSFORMATION
TRHSD	652	I	U.S. MERCHANDISE EXPORTS, ADJUSTED, EXCLUDING MILITARY	BILL CURRENT \$	TRANSFORMATION
TRHSD	505	I	U.S. EXPORTS, SERVICES, TOTAL	BILL CURRENT \$	TRANSFORMATION
TRHSD	507	A	U.S. EXPORTS, SERVICES, RECEIPTS OF INCOME ON U.S. INVEST ABROAD	BILL CURRENT \$	TRANSFORMATION
TRHSD	508	E	U.S. EXPORTS, SERVICES, OTHER	BILL CURRENT \$	TRANSFORMATION
TRHSD	506	B	U.S. EXPORTS, SERVICES, TRANSPORTATION	BILL CURRENT \$	TRANSFORMATION

THE GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 4.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNIT	SOURCE
TEB01V	453	B	U.S. EXPORTS, SERVICES, TRAVEL	BILL CURRENT \$	TRANSFORMATION
TEC001	500	I	U.S. DOMESTIC MERCHANDISE EXPORTS, SCHEDULE B SECTIONS, TOTAL	BILL CURRENT \$	TRANSFORMATION
TEC001B	402	B	U.S. DOMESTIC EXPORTS, SCHED B, FOOD, BEVERAGES AND TOBACCO	BILL CURRENT \$	TRANSFORMATION
TEC021AS	456	B	U.S. DOMESTIC EXPORTS, SCHED B, CRUDE MATERIAL EXCEPT FUEL	BILL CURRENT \$	TRANSFORMATION
TEC033	458	B	U.S. DOMESTIC EXPORTS, SCHED B, MINERAL FUELS & LUBRICANTS, ETC	BILL CURRENT \$	TRANSFORMATION
TEC051S	440	I	U.S. DOMESTIC EXPORTS, SCHED B, MANUFACTURED GOODS	BILL CURRENT \$	TRANSFORMATION
TEC091, 9-3-2203	503	B	U.S. DOMESTIC MERCHANT EXPORTS, SECTIONS 5 THRU 9 - CARS - AIRCRAFT	BILL CURRENT \$	TRANSFORMATION
TEC014003	447	E	VOLUME OF U.S. AGRICULTURAL EXPORTS SHIPPED UNDER PUBLIC LAW 480	BILL CURRENT \$	INTERPOLATED
TEU01AG3	296	E	U.S. MERCHANDISE EXPORTS, END-USE, AGRICULTURAL PRODUCTS	BILL CURRENT \$	TRANSFORMATION
TEU012203	450	E	U.S. MERCHANT EXPORTS, END-USE, CIVILIAN AIRCRAFT ENGINES & PARTS	BILL CURRENT \$	TRANSFORMATION
TEU0133	449	E	U.S. MERCHANDISE EXPORTS, END-USE, AUTOMOTIVE VEHICLES & PARTS	BILL CURRENT \$	TRANSFORMATION
IFR0003	476	E	U.S. TRANSACTIONS, CAPITAL GRANTS REC'D BY US (=ALLOCATION OF 50M)	BILL CURRENT \$	SCB 4.1
IFW	445	E	QUANTUM INDEX OF WORLD TRADE	1972 = 100	MBS SPEC TABLE B
IMB	205	I	U.S. IMPORTS OF GOODS AND SERVICES	BILL CONSTANT \$	SCB 1.2
IMBS	201	I	U.S. IMPORTS OF GOODS AND SERVICES	BILL CURRENT \$	SCB 1.1
IMBS1S	654	E	U.S. IMPORTS, ADJ FACTOR FOR PERIODS WHEN THIS(BOP) NE THIS(MIA)	BILL CURRENT \$	TRANSFORMATION
IMBS1S	653	E	U.S. IMPORTS, CONCEPTUAL DIFF BETWEEN CENSUS & BOP MERCHANDISE	BILL CURRENT \$	TRANSFORMATION
IMBS1S	429	E	U.S. IMPORTS, DIRECT OFFENSE EXPENDITURES	BILL CURRENT \$	TRANSFORMATION
IMBS1S	655	I	U.S. IMPORTS OF MERCHANDISE, ADJUSTED, EXCLUDING MILITARY	BILL CURRENT \$	TRANSFORMATION
IMBS1S	428	I	U.S. IMPORTS, SERVICES	BILL CURRENT \$	TRANSFORMATION
IMBS1S	259	B	U.S. IMPORTS, SERVICES, INVESTMENT INCOME, TOTAL	BILL CURRENT \$	TRANSFORMATION
IMBS1S	432	E	U.S. IMPORTS, SERVICES, OTHER	BILL CURRENT \$	TRANSFORMATION
IMBS1S	249	B	U.S. IMPORTS, SERVICES, TRANSPORTATION	BILL CURRENT \$	TRANSFORMATION
IMBS1S	155	B	U.S. IMPORTS, SERVICES, TRAVEL	BILL CURRENT \$	TRANSFORMATION
IMBS1S	426	I	U.S. GENERAL IMPORTS, SCHEDULE A SECTIONS, TOTAL	BILL CURRENT \$	TRANSFORMATION
IMBS1S	75	B	IMPORTS, U.S., FOOD & BEVERAGES	BILL CURRENT \$	TRANSFORMATION
IMBS1S	266	B	U.S. GEN IMPORTS, SCHEDULE A SECTIONS, CRUDE MATERIAL EXCEPT FUEL	BILL CURRENT \$	TRANSFORMATION
IMBS1S	427	E	U.S. GEN IMPORTS, SCHEDULE A SECTIONS, MINERAL FUELS & LUBRICANTS	BILL CURRENT \$	TRANSFORMATION
IMBS1S	247	I	U.S. GENERAL IMPORTS, SCHEDULE A SECTIONS, MANUFACTURED GOODS	BILL CURRENT \$	TRANSFORMATION
IMBS1S	163	B	U.S. GEN IMPORTS, SCHEDULE A, MANUFACTURED GOODS MINUS END-USE AUTO	BILL CURRENT \$	TRANSFORMATION
IMBS1S	156	I	U.S. MERCHANDISE IMPORTS, END-USE, AUTOMOTIVE VEHICLES & PARTS	BILL CURRENT \$	TRANSFORMATION
IMBS1S	157	F	U.S. MERCHANDISE IMPORTS, END-USE, AUTOS & PARTS, FROM CANADA	BILL CURRENT \$	TRANSFORMATION
IMBS1S	160	B	U.S. MERCHANDISE IMPORTS, END-USE, AUTOPARTS, EXCEPT CANADIAN	BILL CURRENT \$	TRANSFORMATION
IMBS1S	401	E	BUSINESS TRANSFER PAYMENTS	BILL CURRENT \$	SCB 1.9
IMBS1S	217	I	FEDERAL GOVERNMENT EXPENDITURES, TRANSFER PAYMENTS, TOTAL	BILL CURRENT \$	SCB 1.2
IMBS1S	527	E	FEDERAL GOVERNMENT EXPEND, TRANSFER PAYMENTS, TO FOREIGNERS, NET	BILL CURRENT \$	SCB 1.2
IMBS1S	528	E	FEDERAL GOVERNMENT EXPENDITURES, TRANSFER PAYMENTS, TO PERSONS	BILL CURRENT \$	SCB 1.2
IMBS1S	661	E	FED. GOV'T TRANSFER TO PERSONS MINUS STATE UNEMP. INSURANCE BENEFIT	BILL CURRENT \$	TRANSFORMATION
IMBS1S	220	B	STATE & LOCAL GOVT EXPENDITURES, TRANSFER PAYMENTS TO PERSONS	BILL CURRENT \$	SCB 1.9
IMBS1S	529	I	GOVERNMENT TRANSFER PAYMENTS TO PERSONS	BILL CURRENT \$	SCB 1.9
IMBS1S	415	E	PERSONAL OUTLAYS, PERSONAL TRANSFER PAYMENTS TO FOREIGNERS	BILL CURRENT \$	SCB 2.1
IMBS1S	3	I	TRANSFER PAYMENTS, TO PERSONS, TOTAL	BILL CURRENT \$	SCB 2.1
IMBS1S	665	B	TRANSFER PAYMENTS, STATE UNEMPLOYMENT INSURANCE BENEFITS	BILL CURRENT \$	SCB 1.9
IMBS1S	440	I	INDIRECT BUSINESS TAX AND MONTAN LIABILITY	BILL CURRENT \$	SCB 1.2
IMBS1S	591	I	FEDERAL GOVT RECEIPTS, INDIRECT BUSINESS TAX & MONTAN ACCRUALS	BILL CURRENT \$	TRANSFORMATION
IMBS1S	615	B	FED GOVT RECEIPTS, IND BUS TAX ACCRUALS, NON-OILGAS	BILL CURRENT \$	TRANSFORMATION
IMBS1S	92	I	FED GOVT REC, INDIRECT BUS TAX ACCRUALS, NON-OIL	BILL CURRENT \$	TRANSFORMATION
IMBS1S	633	B	FEDERAL GOVT RECEIPTS, GASOLINE EXCISE TAX COLLECTIONS	BILL CURRENT \$	SCA UNPUBLISHED
IMBS1S	530	E	FED GOVT REC, INDIRECT BUS TAX & MONTAN ACCRUALS, CRUDE OIL	BILL CURRENT \$	SCA UNPUBLISHED

GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 8.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
THC888	225	I	STATE & LOCAL GOVT RECEIPTS, INDIRECT BUSINESS TAX & MONTAX ACCRUALS	BILL CURRENT \$	SCB 3.4
THC889	225	I	STATE & LOCAL GOVT RECEIPTS, IND. BUS. TAX ACCRUALS, PROPERTY TAXES	BILL CURRENT \$	SCB 3.4
THC890	161	I	STATE & LOCAL GOVT RECEIPTS, BUSINESS TAX & MONTAX ACCRUALS, OTHER	BILL CURRENT \$	TRANSFORMATION
THC891	440	B	STATE & LOCAL RECEIPTS, IND. BUS. TAX, STATE, GAS	BILL CURRENT \$	SCB 3.4
THC892	441	B	STATE & LOCAL RECEIPTS, IND. BUS. TAX, STATE, GAS	BILL CURRENT \$	TRANSFORMATION
THC893	215	B	FEDERAL GOVT RECEIPTS, IND. BUS. TAX, STATE, GAS	BILL CURRENT \$	SCB 3.2
THC894	224	B	FEDERAL GOVT RECEIPTS, CORPORATE PROFITS TAX ACCRUALS	BILL CURRENT \$	SCB 3.4
THC895	407	I	PROFITS TAX LIABILITY, TOTAL	BILL CURRENT \$	SCB 1.13
THC896	407	I	PERSONAL TAX & MONTAX PAYMENTS, TOTAL	BILL CURRENT \$	SCB 2.1
THC897	214	B	FEDERAL GOVT RECEIPTS, PERSONAL TAX & MONTAX RECEIPTS	BILL CURRENT \$	SCB 3.2
THC898	221	B	STATE & LOCAL GOVT RECEIPTS, PERSONAL TAX & MONTAX RECEIPTS	BILL CURRENT \$	SCB 3.4
THC899	99	B	FEDERAL GOVT RECEIPTS, CONTRIBUTIONS FOR SOCIAL INSURANCE	BILL CURRENT \$	SCB 3.2
THC900	224	B	STATE & LOCAL GOVT RECEIPTS, CONTRIBUTIONS FOR SOCIAL INSURANCE	BILL CURRENT \$	SCB 3.4
THC901	330	I	CONTRIBUTIONS FOR SOCIAL INSURANCE, PERSONAL	BILL CURRENT \$	SCB 2.1
THC902	531	E	RATIO, EMPLOYEE CONTRIBUTIONS FOR SOCIAL INSURANCE TO TOTAL	RATIO	TRANSFORMATION
THC903	496	I	CONTRIBUTIONS FOR SOCIAL INSURANCE, TOTAL	BILL CURRENT \$	SCB 1.9
THC904	469	B	FEDERAL PERSONAL INCOME TAX, VALUE OF STD & ITEMIZED DEDUCTIONS	BILL CURRENT \$	TRANSFORMATION
THC905	470	B	FEDERAL PERSONAL INCOME TAX, NUMBER OF EXEMPTIONS CLAIMED	THOUS. CURRENT \$	TRANSFORMATION
THC906	471	E	FEDERAL PERSONAL INCOME TAX, STATUTORY VALUE OF EACH EXEMPTION	RATIO	INCOME STAT-PERS
THC907	461	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 1ST BRACKET RATE	RATIO	INCOME STAT-PERS
THC908	462	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 2ND BRACKET RATE	RATIO	INCOME STAT-PERS
THC909	463	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 3RD BRACKET RATE	RATIO	INCOME STAT-PERS
THC910	464	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 4TH BRACKET RATE	RATIO	INCOME STAT-PERS
THC911	465	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 5TH BRACKET RATE	RATIO	INCOME STAT-PERS
THC912	466	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 6TH BRACKET RATE	RATIO	INCOME STAT-PERS
THC913	467	B	PROPORTION OF TAXABLE INCOME TAXED AT THE 7TH BRACKET RATE	RATIO	INCOME STAT-PERS
THC914	682	B	PROPORTION OF INCOME TAXED IN TAX BRACKETS 864	PERCENT	TRANSFORMATION
THC915	100	E	INCOME, MAXIMUM EARNED, SUBJECT TO SOCIAL SECURITY TAX	THOU. CURRENT \$	IRS
THC916	666	E	INDEX, U.S. IMPORT DUTY RATE (DUTY COLLECTIONS AS % OF IMGS)	1972 = 100,	TRANSFORMATION
THC917	526	E	EFFECTIVE TAX RATE, OTHER STATE & LOCAL INDIRECT BUSINESS TAXES	PERCENT	TRANSFORMATION
THC918	834	E	FEDERAL TAX ON GASOLINE PER GALLON	CENTS/GALLON	TRANSFORMATION
THC919	310	E	EFFECTIVE CORPORATE TAX RATE, AGRICULTURE, FORESTRY & FISHERIES	PERCENT	TRANSFORMATION
THC920	325	E	EFFECTIVE CORPORATE TAX RATE, COMMERCIAL AND OTHER	PERCENT	TRANSFORMATION
THC921	321	E	EFFECTIVE CORPORATE TAX RATE, DURABLE MANUFACTURING	PERCENT	TRANSFORMATION
THC922	320	E	EFFECTIVE CORPORATE TAX RATE, NONDURABLE MANUFACTURING	PERCENT	TRANSFORMATION
THC923	319	E	EFFECTIVE CORPORATE TAX RATE, MINING	PERCENT	TRANSFORMATION
THC924	324	E	EFFECTIVE CORPORATE TAX RATE, COMMUNICATIONS	PERCENT	TRANSFORMATION
THC925	322	E	EFFECTIVE CORPORATE TAX RATE, TRANSPORTATION	PERCENT	TRANSFORMATION
THC926	323	E	EFFECTIVE CORPORATE TAX RATE, UTILITIES	PERCENT	TRANSFORMATION
THC927	535	E	STATUTORY MARGINAL CORPORATE PROFITS TAX RATE, FEDERAL GOVERNMENT	PERCENT	INTERPOLATED
THC928	540	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#1, 90-3500	PERCENT	IRS-PETCHMAN
THC929	541	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#2, 3500-81000	PERCENT	IRS-PETCHMAN
THC930	542	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#3, 81000-81500	PERCENT	IRS-PETCHMAN
THC931	543	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#4, 81500-82000	PERCENT	IRS-PETCHMAN
THC932	544	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#5, 82000-86000	PERCENT	IRS-PETCHMAN
THC933	545	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#6, 86000-88000	PERCENT	IRS-PETCHMAN
THC934	546	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#7, 88000-90000	PERCENT	IRS-PETCHMAN
THC935	547	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#8, 90000-91000	PERCENT	IRS-PETCHMAN
THC936	548	E	FED. PERSONAL INCOME TAX RATE, STATUTORY, BRACKET#9, 91000-91200	PERCENT	IRS-PETCHMAN

THE GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 4.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
THB6	836	E	STATE AND LOCAL GASOLINE TAX, CENTS PER GALLON	CENTS/GALLON	DEA
THB7	94	E	SOCIAL SECURITY TAX RATE, EFFECTIVE, EMPLOYER PLUS EMPLOYEE	PERCENT	IRS
UCBAG	352	I	USER COST OF CAPITAL, AGRICULTURE, FORESTRY & FISHERIES		TRANSFORMATION
UCBAM	353	I	USER COST OF CAPITAL, COMMERCIAL AND OTHER		TRANSFORMATION
UCBAP	354	I	USER COST OF CAPITAL, DURABLE MANUFACTURING		TRANSFORMATION
UCBAP	355	I	USER COST OF CAPITAL, NONDURABLE MANUFACTURING		TRANSFORMATION
UCBAP	356	I	USER COST OF CAPITAL, MINING		TRANSFORMATION
UCBAP	357	I	USER COST OF CAPITAL, COMMUNICATIONS		TRANSFORMATION
UCBAP	358	I	USER COST OF CAPITAL, TRANSPORTATION		TRANSFORMATION
UCBAP	359	I	USER COST OF CAPITAL, UTILITIES		TRANSFORMATION
UCBAP	360	I	UNIT LABOR COST, AGRICULTURE		TRANSFORMATION
UCBAP	361	I	UNIT LABOR COST, CONTRACT CONSTRUCTION		TRANSFORMATION
UCBAP	362	I	UNIT LABOR COST, FINANCE INSURANCE & REAL ESTATE		TRANSFORMATION
UCBAP	363	I	UNIT LABOR COST, MANUFACTURING DURABLES		TRANSFORMATION
UCBAP	364	I	UNIT LABOR COST, MANUFACTURING NONDURABLES		TRANSFORMATION
UCBAP	365	I	UNIT LABOR COST, MINING		TRANSFORMATION
UCBAP	366	I	UNIT LABOR COST, REGULATED INDUSTRIES		TRANSFORMATION
UCBAP	367	I	UNIT LABOR COST, SERVICES		TRANSFORMATION
UCBAP	368	I	UNIT LABOR COST, WHOLESALE & RETAIL TRADE		TRANSFORMATION
UCBAP	369	I	WAGE ACCRUALS LESS DISBURSEMENTS, TOTAL		SCB 1.9
UCBAP	370	I	FEDERAL GOVERNMENT EXPENDITURES, WAGE ACCRUALS LESS DISBURSEMENTS		SCB 3.2
UCBAP	371	I	STATE/LOCAL GOVT EXPENDITURES, WAGE ACCRUALS LESS DISBURSEMENTS		SCB 3.4
UCBAP	372	I	WAGE ACCRUALS LESS DISBURSEMENTS, PRIVATE		SCB 5.1
UCBAP	373	I	COMPENSATION OF EMPLOYEES, TOTAL		SCB 1.13
UCBAP	374	I	EMPLOYEE COMPENSATION, AGRIC., FORESTRY, & FISHERIES		DEA-UNPUBLISHED
UCBAP	375	I	EMPLOYEE COMPENSATION, CONTRACT CONSTRUCTION		DEA-UNPUBLISHED
UCBAP	376	I	EMPLOYEE COMPENSATION, COMMERCIAL		DEA-UNPUBLISHED
UCBAP	377	I	EMPLOYEE COMPENSATION, FINANCE, INSURANCE & REAL ESTATE		DEA-UNPUBLISHED
UCBAP	378	I	COMPENSATION OF EMPLOYEES, GOVERNMENT & GOVERNMENT ENTERPRISES		DEA-UNPUBLISHED
UCBAP	379	I	COMPENSATION OF EMPLOYEES, FEDERAL & STATE GOVT ENTERPRISES		DEA-UNPUBLISHED
UCBAP	380	I	GMP ORIG. (COMPENSATION), FEDERAL		SCB 1.9
UCBAP	381	I	GMP ORIG. (COMPENSATION), GENERAL GOVERNMENT, FEDERAL		SCB 1.7
UCBAP	382	I	GMP ORIG. (COMPENSATION), GENERAL GOVERNMENT		SCB 1.7
UCBAP	383	I	GMP ORIG. (COMPENSATION), GENERAL GOVERNMENT		SCB 1.7
UCBAP	384	I	GMP ORIG. (COMPENSATION), GENERAL GOVERNMENT		SCB 1.7
UCBAP	385	I	GMP ORIG. (COMPENSATION), GENERAL GOVERNMENT, STATE AND LOCAL		SCB 1.7
UCBAP	386	I	GMP ORIG. (COMPENSATION), GENERAL GOVERNMENT, STATE AND LOCAL		SCB 1.7
UCBAP	387	I	EMPLOYEE COMPENSATION, MANUFACTURING, DURABLES		DEA-UNPUBLISHED
UCBAP	388	I	EMPLOYEE COMPENSATION, MANUFACTURING, NONDURABLES		DEA-UNPUBLISHED
UCBAP	389	I	EMPLOYEE COMPENSATION, MINING		DEA-UNPUBLISHED
UCBAP	390	I	COMPENSATION OF EMPLOYEES, TRANSPORT & COMMUNICATION + UTILITIES		DEA-UNPUBLISHED
UCBAP	391	I	COMPENSATION OF EMPLOYEES, REST OF WORLD		DEA-UNPUBLISHED
UCBAP	392	I	EMPLOYEE COMPENSATION, SERVICES		DEA-UNPUBLISHED
UCBAP	393	I	EMPLOYEE COMPENSATION, WHOLESALE & RETAIL TRADE		DEA-UNPUBLISHED
UCBAP	394	I	PERSONAL INCOME, WAGE & SALARY DISBURSEMENTS, TOTAL		SCB 2.1
UCBAP	395	I	PERSONAL INCOME, WAGE & SALARY DISBURSEMENTS, GOVERNMENT		SCB 2.1
UCBAP	396	I	COMPENSATION OF EMPLOYEES, WAGES & SALARIES		SCB 1.13
UCBAP	397	I	COMPENSATION OF EMPLOYEES, WAGES & SALARIES, GOVERNMENT CIVILIAN		SCB 1.13
UCBAP	398	I	COMPENSATION OF EMPLOYEES, WAGES & SALARIES, MILITARY		SCB 1.13
UCBAP	399	I	COMPENSATION OF EMPLOYEES, WAGES & SALARIES, PRIVATE		SCB 1.13

THE GLOSSARY OF MODEL QUARTERLY VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 4.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
WRCAGS	304 N		COMPENSATION PER MAN PER YEAR, AGRICULTURE, FORESTRY & FISHERIES	THOUSAND \$/YEAR	TRANSFORMATION
WRCCEC	300 P		COMPENSATION PER MANHOUR, CONTRACT CONSTRUCTION	CURRENT \$/HOUR	TRANSFORMATION
WRCFIS	303 N		COMPENSATION PER MANHOUR, FINANCE, INSURANCE AND REAL ESTATE	CURRENT \$/HOUR	TRANSFORMATION
WRCOVFS	522 E		COMPENSATION PER MAN PER YEAR, FEDERAL GENERAL GOVT (INCL MIL)	THOUSAND \$/YEAR	TRANSFORMATION
WRCVSGS	523 E		COMPENSATION PER MAN PER YEAR, STATE & LOCAL GENERAL GOVERNMENT	THOUSAND \$/YEAR	TRANSFORMATION
WRCMFHGS	566 I		COMPENSATION PER MANHOUR, MANUFACTURING AND MINING	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	370 I		COMPENSATION PER MANHOUR, MANUFACTURING	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	377 N		COMPENSATION PER MANHOUR, DURABLES	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	368 P		COMPENSATION PER MANHOUR, MANUFACTURING, NONDURABLES	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	301 B		COMPENSATION PER MANHOUR, MINING	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	477 I		COMPENSATION PER MANHOUR, PRIVATE SECTOR	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	379 B		COMPENSATION PER MANHOUR, REGULATED (TRANSPORT+COMMUN+PUB UTIL)	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	387 N		COMPENSATION PER MANHOUR, SERVICES	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	382 B		COMPENSATION PER MANHOUR, WHOLESALE AND RETAIL TRADE	CURRENT \$/HOUR	TRANSFORMATION
WRCMFS	64 B		GROSS PRODUCT ORIGINATING, AGRICULTURE, FORESTRY & FISHERIES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	513 I		GROSS PRODUCT ORIGINATING, AGRICULTURE, FORESTRY & FISHERIES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	567 I		DUMMY, FORECAST PERIODS ONLY, XALOC=GNP-XSUM	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	589 I		DUMMY, FORECAST PERIODS ONLY, XALOC=GNP-XSUM	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	56 N		GROSS PRODUCT ORIGINATING, CONTRACT CONSTRUCTION	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	388 I		GROSS PRODUCT ORIGINATING, CONTRACT CONSTRUCTION	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	253 I		GROSS PRODUCT ORIGINATING, COMMERCIAL (SUM XMR,XSV,XCC,XFI)	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	569 I		GROSS PRODUCT ORIGINATING, COMMERCIAL (SUM XMR,XSV,XCC,XFI)	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	72 E		GROSS PRODUCT ORIGINATING, RESIDUAL	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	573 E		GROSS PRODUCT ORIGINATING, RESIDUAL	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	71 E		GROSS PRODUCT ORIGINATING, FINANCE, INSURANCE AND REAL ESTATE	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	164 I		GROSS PRODUCT ORIGINATING, FINANCE, INSURANCE AND REAL ESTATE	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	37 I		GROSS PRODUCT ORIGINATING, GOVERNMENT AND GOVERNMENT ENTERPRISES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	571 I		GROSS PRODUCT ORIGINATING, GOVERNMENT & GOVERNMENT ENTERPRISES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	525 E		GROSS PRODUCT ORIGINATING, FEDERAL + ST & LOCAL GOVT ENTERPRISES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	570 I		GROSS PRODUCT ORIGINATING, FEDERAL + ST & LOCAL GOVT ENTERPRISES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	35 I		GROSS PRODUCT ORIGINATING, MANUFACTURING	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	40 I		GROSS PRODUCT ORIGINATING, MANUFACTURING	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	57 B		GROSS PRODUCT ORIGINATING, MANUFACTURING, DURABLE	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	578 I		GROSS PRODUCT ORIGINATING, MANUFACTURING, DURABLE	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	62 B		GROSS PRODUCT ORIGINATING, MANUFACTURING, NONDURABLE	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	577 I		GROSS PRODUCT ORIGINATING, MANUFACTURING, NONDURABLE	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	51 B		GROSS PRODUCT ORIGINATING, MINING	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	567 I		GROSS PRODUCT ORIGINATING, MINING	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	619 I		GNP ORIGINATING, PRIVATE SECTOR	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	583 I		GNP ORIGINATING, PRIVATE SECTOR	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	199 I		GROSS PRODUCT ORIGINATING, REGULATED IMOS (XRCI+XRCG+XRCU+XRCV)	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	568 I		GROSS PRODUCT ORIGINATING, REGULATED IMOS (XRCI+XRCG+XRCU+XRCV)	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	154 N		GROSS PRODUCT ORIGINATING, REGULATED IMOS (XRCI+XRCG+XRCU+XRCV)	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	575 I		GROSS PRODUCT ORIGINATING, REGULATED IMOS (XRCI+XRCG+XRCU+XRCV)	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	65 B		GROSS PRODUCT ORIGINATING, TRANSPORTATION	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	574 I		GROSS PRODUCT ORIGINATING, TRANSPORTATION	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	67 N		GROSS PRODUCT ORIGINATING, ELECTRIC, GAS AND SANITARY SERVICES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	576 I		GROSS PRODUCT ORIGINATING, ELECTRIC, GAS AND SANITARY SERVICES	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	202 F		GNP ORIGINATING, PRIVATE SECTOR, REST OF WORLD	BILL CONSTANT \$	TRANSFORMATION
WRCMFS	584 I		GNP ORIGINATING, PRIVATE SECTOR, REST OF WORLD	BILL CONSTANT \$	TRANSFORMATION

THE GLOSSARY OF MODEL VARIABLES FOR
THE WARTON QUARTERLY MODEL MARK 2.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
HR08	572	1	GMP ORIGINATING, PRIVATE SECTOR, REST OF WORLD	BILL CURRENT \$	SCB 1.7
XSV	49	0	GROSS PRODUCT ORIGINATING, SERVICES	BILL CURRENT \$	SCA WORKFILE
XSVB	512	1	GROSS PRODUCT ORIGINATING, SERVICES	BILL CURRENT \$	TRANSFORMATION
XHR	60	0	GROSS PRODUCT ORIGINATING, WHOLESALE AND RETAIL TRADE	BILL CURRENT \$	SCA WORKFILE
XHRB	165	1	GROSS PRODUCT ORIGINATING, WHOLESALE AND RETAIL TRADE	BILL CURRENT \$	SCA 1.13
VDIVTS	492	0	DIVIDENDS, TOTAL	BILL CURRENT \$	SCA 1.13
VENTS	483	1	INCOME OF NONCORPORATE ENTS (PROPRIETORS), TOTAL, WITH IVA & CCA	BILL CURRENT \$	SCA 1.13
VENTBS	93	0	INCOME OF NONCOMP ENTS (PROPRIETORS), NOWARM, WITH IVASCCA ADJ	BILL CURRENT \$	SCB 1.13
VENTFS	149	0	INCOME OF NONCOMP ENTS (PROPRIETORS), FARM, WITH CCA ADJ	BILL CURRENT \$	SCB 1.13
VINTS	490	1	PERSONAL INTEREST INCOME	BILL CURRENT \$	SCB 2.1
VINTBS	485	0	NET INTEREST, NATIONAL INCOME	BILL CURRENT \$	SCB 2.1
VINTCS	414	0	PERSONAL OUTLAYS, INTEREST PAID BY CONSUMERS	BILL CURRENT \$	SCB 2.1
VINTGCS	493	1	INTEREST PAID BY GOVERNMENT (NET) AND BY CONSUMERS	BILL CURRENT \$	SCB 3.2
VINTGFS	110	0	FEDERAL GOVERNMENT EXPENDITURES, NET INTEREST PAID	BILL CURRENT \$	SCB 3.2
VINTGFFFS	610	0	FEDERAL GOVT EXPENDITURES, INTEREST PAID, TO FOREIGNERS	BILL CURRENT \$	SCB 3.4
VINTGSS	229	0	STATE & LOCAL GOVERNMENT EXPENDITURES, NET INTEREST PAID	BILL CURRENT \$	SCB 1.13
VNS	436	1	NATIONAL INCOME, TOTAL	BILL CURRENT \$	SCB 2.1
VPS	495	1	PERSONAL INCOME, TOTAL	BILL CURRENT \$	SCB 2.1
VPSB	122	1	DISPOSABLE PERSONAL INCOME	BILL CURRENT \$	SCB 2.1
VPSBNTS	413	1	DISPOSABLE PERSONAL INCOME	BILL CURRENT \$	SCB 2.1
VPOPC	490	1	PERSONAL OUTLAYS, TOTAL	BILL CURRENT \$	SCB 2.1
VPOPCS	500	1	DISPOSABLE PERSONAL INCOME, PER CAPITA	BILL CURRENT \$	SCB 2.1
VPOSAYS	416	1	PERSONAL SAVINGS	CONSTANT \$	SCB 2.1
VPOSAYR	417	1	PERSONAL SAVINGS RATE - SAVINGS AS % OF DISPOSABLE INCOME	PERCENT	SCB 2.1
VPTAX2S	460	1	INCOME, PERSONAL, ESTIMATED TAXABLE	BILL CURRENT \$	TRANSFORMATION
VPTAX3S	460	1	INCOME, PERSONAL, TAXABLE, WITH CONCEPT	BILL CURRENT \$	SCB 1.13
VRENTS	484	0	RENTAL INCOME OF PERSONS, WITH CAPITAL CONSUMPTION ADJUSTMENT	BILL CURRENT \$	SCB 1.13
ZCAIP	634	0	CANADA, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZCAPC	620	0	CANADA, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD
ZCAPM	641	0	CANADA, WHOLESALE PRICE INDEX, MANUFACTURED GOODS	1972 = 100	OECD MAIN ECON
ZFRIP	637	0	FRANCE, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZFRPC	623	0	FRANCE, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD
ZFRPM	643	0	FRANCE, WHOLESALE PRICE INDEX, INTERMEDIATE GOODS	1972 = 100	OECD MAIN ECON
ZGZIP	639	0	GERMANY, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZGZPC	625	0	GERMANY, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD
ZGZTEAU	151	0	GERMAN EXPORT PRICE, AUTOS & PARTS, DEUTSCHE MARKS	1972 = 100	WIRTSCHAFT STAT
ZIIP	645	0	ITALY, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZIIPC	630	0	ITALY, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD
ZIIPM	644	0	ITALY, WHOLESALE PRICE INDEX, INVESTMENT GOODS	1972 = 100	OECD MAIN ECON
ZJAP	640	0	JAPAN, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZJAPC	626	0	JAPAN, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD
ZJAPM	640	0	JAPAN, WHOLESALE PRICE INDEX, MANUFACTURED INVESTMENT GOODS	1972 = 100	OECD MAIN ECON
ZMEIP	635	0	MEXICO, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZMEPC	621	0	MEXICO, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD
ZMFRMT80	564	0	INDEX, MORNEGIAN FREIGHT RATES, TRAMP VOYAGE	1970 = 100	178-147 LINE 60A
ZUNIP	636	0	UNITED KINGDOM, TOTAL INDUSTRIAL PRODUCTION INDEX	1972 = 100	OECD INDUSTR PROD
ZUNPC	622	0	UNITED KINGDOM, CONSUMER PRICE INDEX	1972 = 100	OECD INDUSTR PROD

GLOSSARY OF MODEL VARIABLES FOR
THE WHARTON QUARTERLY MODEL MARK 6.7

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
ZUNP4	402	E	UNITED KINGDOM, WHOLESALE PRICE INDEX, MANUFACTURED GOODS	1972 = 100	OECD MAIN ECON
ZMACUMIP	452	E	WTD AVG, IND.L CAPACITY UTILIZATION IN 6 WEST EUROPE COUNTRIES	PEAK = 100	WHARTON E.F.A.
ZMAIP6	565	I	WTD AVERAGE, INDUSTRIAL PRODUCTION IN 6 COUNTRIES, OECD WEIGHTS	1972 = 100	TRANSFORMATION
ZMAIP7	454	I	WTD AVERAGE, CANADA, WHOLESALE PRICE INDEX, FULLY & CHIEFLY MANUFACTURED GOODS	1972 = 100	TRANSFORMATION
ZMAPCET1	455	I	WTD AVERAGE, CPI IN 7 COUNTRIES, ADJ FOR EXCHG RATES (IMPORT MT)	1972 = 100	TRANSFORMATION
ZMAPCET2	216	I	WTD AVERAGE, CPI IN 7 COUNTRIES, ADJ FOR EXCHG RATES (TRAVEL MT)	1972 = 100	TRANSFORMATION
ZMAPCET3	562	I	WEIGHTED AVG, WHOLESALE PRICE INDEX IN 6 COUNTRIES (IMPORT MT)	1972 = 100	TRANSFORMATION
ZMAPME	563	I	WEIGHTED AVG, WPI IN 6 COUNTRIES, ADJ FOR EXCHG RATE (IMPORT MT)	1972 = 100	TRANSFORMATION
ZMAPVED4	265	I	WTD AVG, WPI IN 6 COUNTRIES, ADJ FOR EXCHG & IMPORT DUTY RATES	1972 = 100	TRANSFORMATION

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL (MM) FORECAST, OCTOBER 1977

TABLE 1.00 LABOR FORCE AND PARTICIPATION RATES
1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2

LABOR FORCE IN MILLIONS														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NLCM10.19	NLCM20.24	NLCM25.34	NLCM35.44	NLCM45.54	NLCM55.64	NLCM65.64	NLCF16.19	NLCF20.24	NLCF25.34	NLCF35.44	NLCF45.54	NLCF55.64	NLCF65.64	NLCF65.64
U	U	U	U	U	U	U	F	F	F	F	F	F	F	F
MALES	MALES	MALES	MALES	MALES	MALES	MALES	FEMALES	FEMALES	FEMALES	FEMALES	FEMALES	FEMALES	FEMALES	FEMALES
16 TO 19	20 TO 24	25 TO 34	35 TO 44	45 TO 54	55 TO 64	65+	16 TO 19	20 TO 24	25 TO 34	35 TO 44	45 TO 54	55 TO 64	65+	65+
5.021	7.791	14.061	10.581	10.211	7.061	1.791	4.291	6.621	9.741	6.491	6.701	4.421	1.101	0.001
5.06	7.86	15.18	10.87	10.29	7.05	1.76	4.30	6.72	9.68	6.96	6.80	4.56	1.12	0.000
5.10	7.94	15.40	10.87	10.29	7.05	1.76	4.30	6.72	9.68	6.96	6.80	4.56	1.12	0.000
5.13	7.99	15.58	10.97	10.33	7.07	1.76	4.30	6.72	9.68	6.96	6.80	4.56	1.12	0.000
5.16	8.03	15.73	11.06	10.34	7.06	1.75	4.31	6.76	9.63	7.05	6.84	4.62	1.15	0.000
5.19	8.07	16.04	11.22	10.34	7.05	1.74	4.30	6.83	9.72	7.13	6.91	4.73	1.17	0.000
5.20	8.08	16.24	11.30	10.33	7.05	1.73	4.30	6.87	9.80	7.18	6.97	4.77	1.18	0.000
5.21	8.10	16.54	11.48	10.32	7.05	1.72	4.31	6.92	9.88	7.24	7.07	4.82	1.19	0.000
5.21	8.10	16.84	11.63	10.26	7.06	1.71	4.31	6.96	9.97	7.35	7.13	4.86	1.20	0.000
5.21	8.10	17.14	11.78	10.10	7.07	1.70	4.32	7.04	10.08	7.48	7.26	4.93	1.21	0.000
5.21	8.10	17.44	11.93	10.00	7.08	1.69	4.32	7.12	10.16	7.60	7.38	5.00	1.22	0.000
5.21	8.10	17.74	12.08	9.90	7.09	1.68	4.33	7.20	10.24	7.72	7.50	5.07	1.23	0.000
5.21	8.10	18.04	12.23	9.80	7.10	1.67	4.33	7.28	10.32	7.84	7.62	5.14	1.24	0.000
5.21	8.10	18.34	12.38	9.70	7.11	1.66	4.34	7.36	10.40	7.96	7.74	5.21	1.25	0.000
5.21	8.10	18.64	12.53	9.60	7.12	1.65	4.34	7.44	10.48	8.08	7.86	5.28	1.26	0.000
5.21	8.10	18.94	12.68	9.50	7.13	1.64	4.35	7.52	10.56	8.20	7.98	5.35	1.27	0.000
5.21	8.10	19.24	12.83	9.40	7.14	1.63	4.35	7.60	10.64	8.32	8.10	5.42	1.28	0.000
5.21	8.10	19.54	12.98	9.30	7.15	1.62	4.36	7.68	10.72	8.44	8.22	5.49	1.29	0.000
5.21	8.10	19.84	13.13	9.20	7.16	1.61	4.36	7.76	10.80	8.56	8.34	5.56	1.30	0.000
5.21	8.10	20.14	13.28	9.10	7.17	1.60	4.37	7.84	10.88	8.68	8.46	5.63	1.31	0.000
5.21	8.10	20.44	13.43	9.00	7.18	1.59	4.37	7.92	10.96	8.80	8.58	5.70	1.32	0.000
5.21	8.10	20.74	13.58	8.90	7.19	1.58	4.38	8.00	11.04	8.92	8.70	5.77	1.33	0.000
5.21	8.10	21.04	13.73	8.80	7.20	1.57	4.38	8.08	11.12	9.04	8.82	5.84	1.34	0.000
5.21	8.10	21.34	13.88	8.70	7.21	1.56	4.39	8.16	11.20	9.16	8.94	5.91	1.35	0.000
5.21	8.10	21.64	14.03	8.60	7.22	1.55	4.39	8.24	11.28	9.28	9.06	5.98	1.36	0.000
5.21	8.10	21.94	14.18	8.50	7.23	1.54	4.40	8.32	11.36	9.40	9.18	6.05	1.37	0.000
5.21	8.10	22.24	14.33	8.40	7.24	1.53	4.40	8.40	11.44	9.52	9.30	6.12	1.38	0.000
5.21	8.10	22.54	14.48	8.30	7.25	1.52	4.41	8.48	11.52	9.64	9.42	6.19	1.39	0.000
5.21	8.10	22.84	14.63	8.20	7.26	1.51	4.41	8.56	11.60	9.76	9.54	6.26	1.40	0.000
5.21	8.10	23.14	14.78	8.10	7.27	1.50	4.42	8.64	11.68	9.88	9.66	6.33	1.41	0.000
5.21	8.10	23.44	14.93	8.00	7.28	1.49	4.42	8.72	11.76	10.00	9.78	6.40	1.42	0.000
5.21	8.10	23.74	15.08	7.90	7.29	1.48	4.43	8.80	11.84	10.12	9.90	6.47	1.43	0.000
5.21	8.10	24.04	15.23	7.80	7.30	1.47	4.43	8.88	11.92	10.24	10.02	6.54	1.44	0.000
5.21	8.10	24.34	15.38	7.70	7.31	1.46	4.44	8.96	12.00	10.36	10.14	6.61	1.45	0.000
5.21	8.10	24.64	15.53	7.60	7.32	1.45	4.44	9.04	12.08	10.48	10.26	6.68	1.46	0.000
5.21	8.10	24.94	15.68	7.50	7.33	1.44	4.45	9.12	12.16	10.60	10.38	6.75	1.47	0.000
5.21	8.10	25.24	15.83	7.40	7.34	1.43	4.45	9.20	12.24	10.72	10.50	6.82	1.48	0.000
5.21	8.10	25.54	15.98	7.30	7.35	1.42	4.46	9.28	12.32	10.84	10.62	6.89	1.49	0.000
5.21	8.10	25.84	16.13	7.20	7.36	1.41	4.46	9.36	12.40	10.96	10.74	6.96	1.50	0.000
5.21	8.10	26.14	16.28	7.10	7.37	1.40	4.47	9.44	12.48	11.08	10.86	7.03	1.51	0.000
5.21	8.10	26.44	16.43	7.00	7.38	1.39	4.47	9.52	12.56	11.20	10.98	7.10	1.52	0.000
5.21	8.10	26.74	16.58	6.90	7.39	1.38	4.48	9.60	12.64	11.32	11.10	7.17	1.53	0.000
5.21	8.10	27.04	16.73	6.80	7.40	1.37	4.48	9.68	12.72	11.44	11.22	7.24	1.54	0.000
5.21	8.10	27.34	16.88	6.70	7.41	1.36	4.49	9.76	12.80	11.56	11.34	7.31	1.55	0.000
5.21	8.10	27.64	17.03	6.60	7.42	1.35	4.49	9.84	12.88	11.68	11.46	7.38	1.56	0.000
5.21	8.10	27.94	17.18	6.50	7.43	1.34	4.50	9.92	12.96	11.80	11.58	7.45	1.57	0.000
5.21	8.10	28.24	17.33	6.40	7.44	1.33	4.50	10.00	13.04	11.92	11.70	7.52	1.58	0.000
5.21	8.10	28.54	17.48	6.30	7.45	1.32	4.51	10.08	13.12	12.04	11.82	7.59	1.59	0.000
5.21	8.10	28.84	17.63	6.20	7.46	1.31	4.51	10.16	13.20	12.16	11.94	7.66	1.60	0.000
5.21	8.10	29.14	17.78	6.10	7.47	1.30	4.52	10.24	13.28	12.28	12.06	7.73	1.61	0.000
5.21	8.10	29.44	17.93	6.00	7.48	1.29	4.52	10.32	13.36	12.40	12.18	7.80	1.62	0.000
5.21	8.10	29.74	18.08	5.90	7.49	1.28	4.53	10.40	13.44	12.52	12.30	7.87	1.63	0.000
5.21	8.10	30.04	18.23	5.80	7.50	1.27	4.53	10.48	13.52	12.64	12.42	7.94	1.64	0.000
5.21	8.10	30.34	18.38	5.70	7.51	1.26	4.54	10.56	13.60	12.76	12.54	8.01	1.65	0.000
5.21	8.10	30.64	18.53	5.60	7.52	1.25	4.54	10.64	13.68	12.88	12.66	8.08	1.66	0.000
5.21	8.10	30.94	18.68	5.50	7.53	1.24	4.55	10.72	13.76	13.00	12.78	8.15	1.67	0.000
5.21	8.10	31.24	18.83	5.40	7.54	1.23	4.55	10.80	13.84	13.12	12.90	8.22	1.68	0.000
5.21	8.10	31.54	18.98	5.30	7.55	1.22	4.56	10.88	13.92	13.24	13.02	8.29	1.69	0.000
5.21	8.10	31.84	19.13	5.20	7.56	1.21	4.56	10.96	14.00	13.36	13.14	8.36	1.70	0.000
5.21	8.10	32.14	19.28	5.10	7.57	1.20	4.57	11.04	14.08	13.48	13.26	8.43	1.71	0.000
5.21	8.10	32.44	19.43	5.00	7.58	1.19	4.57	11.12	14.16	13.60	13.38	8.50	1.72	0.000
5.21	8.10	32.74	19.58	4.90	7.59	1.18	4.58	11.20	14.24	13.72	13.50	8.57	1.73	0.000
5.21	8.10	33.04	19.73	4.80	7.60	1.17	4.58	11.28	14.32	13.84	13.62	8.64	1.74	0.000
5.21	8.10	33.34	19.88	4.70	7.61	1.16	4.59	11.36	14.40	13.96	13.74	8.71	1.75	0.000
5.21	8.10	33.64	20.03	4.60	7.62	1.15	4.59	11.44	14.48	14.08	13.86	8.78	1.76	0.000
5.21	8.10	33.94	20.18	4.50	7.63	1.14	4.60	11.52	14.56	14.20	13.98	8.85	1.77	0.000
5.21	8.10	34.24	20.33	4.40	7.64	1.13	4.60	11.60	14.64	14.32	14.10	8.92	1.78	0.000
5.21	8.10	34.54	20.48	4.30	7.65	1.12	4.61	11.68	14.72	14.44	14.22	8.99	1.79	0.000
5.21	8.10	34.84	20.63	4.20	7.66	1.11	4.61	11.76	14.80	14.56	14.34	9.06	1.80	0.000
5.21	8.10	35.14	20.78	4.10	7.67	1.10	4.62	11.84	14.88	14.68	14.46	9.13	1.81	0.000
5.21	8.10	35.44	20.93	4.00	7.68	1.09	4.62	11.92	14.96	14.80	14.58	9.20	1.82	0.000
5.21	8.10	35.74	21.08	3.90	7.69	1.08	4.63	12.00	15.04	14.92	14.70	9.27	1.83	0.000
5.21	8.10	36.04	21.23	3.80	7.70	1.07	4.63	12.08	15.12	15.04	14.82	9.34	1.84	0.000
5.21	8.10	36.34	21.38	3.70	7.71	1.06	4.64	12.16	15.20	15.16	14.94	9.41	1.85	0.000
5.21	8.10	36.64	21.53	3.60	7.72	1.05	4.64	12.24	15.28	15.28	15.06	9.48	1.86	0.000
5.21	8.10	36.94	21.68	3.50	7.73	1.04	4.65	12.32	15.36	15.40	15.18	9.55	1.87	0.000
5.21	8.10	37.24	21.83	3.40	7.74	1.03	4.65	12.40	15.44	15.52	15.30	9.62	1.88	0.000
5.21	8.10	37.54	21.98	3.30	7.75	1.02	4.66	12.48	15.52	15.64	15.42	9.69	1.89	0.000
5.21	8.10	37.84	22.13	3.20	7.76	1.01	4.66	12.56	15.60	15.76	15.54	9.76	1.90	0.000
5.21	8.10	38.14	22.28	3.10	7.77	1.00	4.67	12.64	15.68	15.88	15.66	9.83	1.91	0.000
5.21	8.10	38.44	22.43	3.00	7.78	0.99	4.67	12.72	15.76	16.00	15.78	9.90	1.92	0.0

TABLE 1.00 LABOR FORCE AND PARTICIPATION RATES

LINE VAR LABEL	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
LABOR FORCE IN MILLIONS													
1 NLCM16.19	5.20	5.16	5.13	5.11	5.07	5.03	4.99	4.95	5.10	5.10	5.20	5.21	5.12
2 NLCM20.20	8.09	8.10	8.12	8.14	8.14	8.12	8.10	8.10	8.00	8.00	8.00	8.09	8.12
3 NLCM25.14	17.12	17.27	17.46	17.64	17.72	17.71	17.69	17.70	15.65	15.65	16.31	16.91	17.52
4 NLCM35.44	11.50	11.87	11.91	11.95	12.09	12.13	12.58	12.60	11.01	11.01	11.35	11.67	11.96
5 NLCM45.54	10.21	10.19	10.17	10.15	10.13	10.12	10.11	10.09	10.24	10.24	10.24	10.24	10.16
6 NLCM55.64	7.13	7.15	7.18	7.22	7.27	7.31	7.35	7.41	7.06	7.06	7.05	7.09	7.21
7 NLCM65.7	1.67	1.66	1.64	1.63	1.61	1.60	1.58	1.56	1.75	1.75	1.73	1.64	1.63
PARTICIPATION RATES													
11 NLCF16.19	4.33	4.31	4.30	4.29	4.26	4.26	4.24	4.22	4.30	4.30	4.30	4.32	4.30
12 NLCF20.20	7.12	7.10	7.20	7.25	7.28	7.30	7.32	7.35	6.73	6.73	6.90	7.06	7.22
13 NLCF25.14	10.43	10.55	10.70	10.85	10.95	10.99	11.04	11.10	9.65	9.65	9.84	10.25	10.76
14 NLCF35.44	7.53	7.58	7.60	7.62	7.71	7.66	7.66	7.61	7.03	7.03	7.21	7.44	7.63
15 NLCF45.54	7.00	7.01	7.01	7.01	7.01	7.01	7.00	7.00	6.82	6.82	6.94	7.00	7.01
16 NLCF55.64	4.98	5.01	5.03	5.06	5.08	5.10	5.12	5.13	4.59	4.59	4.74	4.94	5.04
17 NLCF65.7	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.14	1.14	1.19	1.21	1.22
18 NLCOFF	-0.000	0.000	0.000	0.000	0.000	0.000	-0.000	0.000	0.000	0.000	0.000	0.000	0.000
19 NLCALOC	1.007	1.006	1.006	1.006	1.006	1.005	1.005	1.004	1.009	1.009	1.008	1.007	1.006
PARTICIPATION RATES													
23 NRLTM16.19	0.647	0.647	0.648	0.648	0.648	0.648	0.649	0.649	0.631	0.631	0.641	0.646	0.648
24 NRLTM20.20	0.840	0.842	0.841	0.840	0.839	0.838	0.838	0.837	0.854	0.854	0.854	0.846	0.840
25 NRLTM25.14	0.992	0.991	0.991	0.990	0.989	0.988	0.987	0.985	0.965	0.965	0.965	0.967	0.990
26 NRLTM35.44	0.908	0.909	0.910	0.911	0.913	0.914	0.914	0.914	0.932	0.932	0.941	0.943	0.942
27 NRLTM45.54	0.943	0.942	0.942	0.942	0.942	0.941	0.941	0.941	0.930	0.930	0.929	0.926	0.931
28 NRLTM55.64	0.727	0.726	0.730	0.732	0.735	0.738	0.741	0.745	0.719	0.719	0.729	0.726	0.731
29 NRLTM65.7	0.176	0.174	0.172	0.169	0.167	0.165	0.163	0.161	0.191	0.191	0.186	0.179	0.170
30 NRLTM	0.793	0.793	0.793	0.793	0.794	0.794	0.794	0.795	0.789	0.789	0.792	0.793	0.793
PARTICIPATION RATES													
33 NRLTF16.19	0.531	0.532	0.534	0.536	0.536	0.536	0.542	0.544	0.519	0.519	0.522	0.520	0.535
34 NRLTF20.20	0.608	0.609	0.613	0.615	0.615	0.615	0.620	0.620	0.670	0.670	0.676	0.685	0.694
35 NRLTF25.14	0.574	0.575	0.577	0.579	0.581	0.583	0.585	0.587	0.571	0.571	0.566	0.571	0.578
36 NRLTF35.44	0.574	0.574	0.575	0.576	0.577	0.578	0.579	0.580	0.571	0.571	0.569	0.572	0.576
37 NRLTF45.54	0.606	0.607	0.609	0.611	0.611	0.612	0.612	0.612	0.574	0.574	0.591	0.603	0.609
38 NRLTF55.64	0.451	0.452	0.453	0.454	0.455	0.456	0.457	0.458	0.427	0.427	0.441	0.449	0.454
39 NRLTF65.7	0.080	0.087	0.087	0.087	0.087	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.087
40 NRLTF	0.494	0.495	0.496	0.497	0.498	0.500	0.501	0.502	0.483	0.483	0.486	0.492	0.497
PARTICIPATION RATES													
43 NRLT16.19	0.586	0.589	0.590	0.591	0.593	0.594	0.595	0.596	0.574	0.574	0.581	0.586	0.591
44 NRLT20.20	0.763	0.764	0.764	0.765	0.766	0.767	0.768	0.769	0.760	0.760	0.761	0.763	0.765
45 NRLT25.14	0.777	0.778	0.778	0.779	0.780	0.780	0.780	0.781	0.765	0.765	0.772	0.776	0.779
46 NRLT35.44	0.764	0.765	0.765	0.767	0.768	0.769	0.770	0.771	0.761	0.761	0.762	0.766	0.770
47 NRLT45.54	0.769	0.769	0.770	0.770	0.771	0.771	0.771	0.771	0.746	0.746	0.760	0.767	0.770
48 NRLT55.64	0.581	0.582	0.583	0.585	0.587	0.589	0.591	0.593	0.574	0.574	0.576	0.579	0.584
49 NRLT65.7	0.123	0.122	0.121	0.120	0.119	0.118	0.117	0.116	0.129	0.129	0.128	0.125	0.121
50 NRLT	0.635	0.636	0.636	0.637	0.638	0.639	0.639	0.640	0.628	0.628	0.631	0.634	0.637

THE W H A R T O N Q U A R T E R L Y M O D E L M A R K 4.6
SPECIAL UNH FORECAST: OCTOBER 1977

TABLE 1.10 EMPLOYMENT AND UNEMPLOYMENT

LINE	VAN LABEL	1980.5	1980.5	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
EMPLOYMENT IN MILLIONS														
1	ALL	4.30	4.35	4.33	4.32	4.30	4.27	4.25	4.22	4.05	4.24	4.32	4.36	4.32
2	MALES 16 TO 19	7.32	7.35	7.38	7.41	7.43	7.42	7.42	7.42	6.95	7.13	7.25	7.31	7.39
3	MALES 20 TO 24	16.31	16.48	16.67	16.86	16.96	16.97	16.96	16.97	13.97	14.79	15.47	16.09	16.74
4	MALES 25 TO 34	11.41	11.49	11.53	11.57	11.72	11.96	12.20	12.41	10.16	10.60	10.98	11.24	11.54
5	MALES 35 TO 44	9.87	9.86	9.85	9.83	9.82	9.81	9.80	9.79	9.85	9.95	9.96	9.90	9.88
6	MALES 45 TO 54	6.49	6.42	6.45	6.49	6.53	6.57	6.60	6.63	6.76	6.81	6.80	6.85	6.94
7	MALES 55 TO 64	1.34	1.38	1.36	1.35	1.33	1.32	1.30	1.29	1.70	1.66	1.64	1.60	1.56
8	MALES 65+	57.75	58.02	58.28	58.53	58.79	59.04	59.26	59.47	53.44	55.17	56.39	57.39	58.41
9	ALL MALES	3.58	3.58	3.58	3.58	3.58	3.57	3.56	3.55	3.43	3.51	3.53	3.57	3.58
10	FEMALES 16 TO 19	6.40	6.45	6.50	6.55	6.59	6.62	6.65	6.68	5.73	5.99	6.16	6.34	6.52
11	FEMALES 20 TO 24	9.69	9.82	9.97	10.11	10.21	10.26	10.31	10.37	8.84	8.90	9.11	9.52	10.03
12	FEMALES 25 TO 34	7.15	7.20	7.22	7.25	7.34	7.49	7.64	7.77	6.60	6.64	6.82	7.06	7.25
13	FEMALES 35 TO 44	6.71	6.72	6.72	6.72	6.73	6.73	6.73	6.72	6.37	6.50	6.63	6.69	6.72
14	FEMALES 45 TO 54	4.78	4.81	4.83	4.86	4.88	4.90	4.92	4.94	4.16	4.39	4.59	4.74	4.85
15	FEMALES 55 TO 64	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.03	1.10	1.14	1.16	1.17
16	FEMALES 65+	39.48	39.74	40.00	40.25	40.50	40.75	40.99	41.21	36.16	37.03	37.99	39.04	40.12
17	ALL FEMALES	7.94	7.92	7.91	7.90	7.87	7.84	7.80	7.77	7.48	7.75	7.85	7.93	7.90
18	ALL PERSONS 16 TO 19	13.73	13.80	13.88	13.96	14.02	14.04	14.07	14.10	12.69	13.12	13.42	13.64	13.92
19	ALL PERSONS 20 TO 24	26.00	26.30	26.64	26.97	27.17	27.23	27.27	27.34	22.80	23.69	24.58	25.61	26.77
20	ALL PERSONS 25 TO 34	18.55	18.68	18.75	18.82	19.05	19.44	19.85	20.19	16.76	17.23	17.71	18.34	18.83
21	ALL PERSONS 35 TO 44	16.58	16.58	16.57	16.55	16.55	16.55	16.53	16.51	16.22	16.45	16.60	16.60	16.56
22	ALL PERSONS 45 TO 54	11.67	11.73	11.79	11.85	11.92	11.98	12.04	12.11	10.93	11.20	11.40	11.50	11.62
23	ALL PERSONS 55 TO 64	2.76	2.75	2.73	2.72	2.71	2.70	2.68	2.67	2.74	2.76	2.78	2.77	2.73
24	ALL PERSONS 65+	0.837	0.818	0.802	0.790	0.775	0.758	0.743	0.733	0.897	0.903	0.881	0.850	0.796
25	ALL PERSONS	0.769	0.749	0.735	0.726	0.711	0.694	0.682	0.674	0.840	0.872	0.831	0.785	0.730
26	MALES 16 TO 19	0.81	0.794	0.784	0.779	0.766	0.748	0.735	0.732	0.864	0.861	0.842	0.819	0.781
27	MALES 20 TO 24	0.593	0.586	0.580	0.576	0.574	0.575	0.579	0.581	0.404	0.415	0.405	0.396	0.379
28	MALES 25 TO 34	0.334	0.327	0.321	0.316	0.311	0.307	0.304	0.304	0.388	0.377	0.359	0.341	0.319
29	MALES 35 TO 44	0.236	0.233	0.231	0.230	0.229	0.229	0.230	0.232	0.258	0.253	0.243	0.237	0.231
30	MALES 45 TO 54	0.083	0.081	0.080	0.079	0.077	0.076	0.075	0.074	0.098	0.093	0.089	0.085	0.079
31	MALES 55 TO 64	3.863	3.849	3.833	3.827	3.824	3.817	3.819	3.840	3.798	3.773	3.650	3.514	3.316
32	MALES 65+	0.745	0.732	0.722	0.715	0.704	0.692	0.681	0.674	0.791	0.795	0.773	0.753	0.718
33	FEMALES 16 TO 19	0.715	0.705	0.700	0.696	0.689	0.679	0.672	0.670	0.745	0.745	0.733	0.720	0.698
34	FEMALES 20 TO 24	0.338	0.335	0.335	0.339	0.336	0.329	0.325	0.326	0.768	0.742	0.731	0.735	0.736
35	FEMALES 25 TO 34	0.304	0.300	0.306	0.313	0.312	0.314	0.317	0.318	0.403	0.393	0.388	0.385	0.375
36	FEMALES 35 TO 44	0.207	0.203	0.209	0.206	0.202	0.209	0.216	0.215	0.355	0.316	0.310	0.301	0.287
37	FEMALES 45 TO 54	0.202	0.200	0.199	0.198	0.197	0.196	0.196	0.197	0.198	0.199	0.202	0.202	0.199
38	FEMALES 55 TO 64	0.046	0.046	0.045	0.045	0.044	0.043	0.043	0.043	0.048	0.048	0.048	0.047	0.045
39	FEMALES 65+	1.502	1.504	1.504	1.505	1.479	1.449	1.424	1.407	1.687	1.698	1.655	1.603	1.515
40	ALL PERSONS 16 TO 19	1.484	1.455	1.435	1.422	1.400	1.374	1.355	1.349	1.635	1.616	1.564	1.505	1.428
41	ALL PERSONS 20 TO 24	1.508	1.529	1.520	1.518	1.502	1.477	1.461	1.459	1.632	1.603	1.572	1.554	1.517
42	ALL PERSONS 25 TO 34	0.777	0.766	0.756	0.749	0.746	0.749	0.757	0.761	0.806	0.804	0.793	0.781	0.754
43	ALL PERSONS 35 TO 44	0.632	0.619	0.609	0.602	0.594	0.586	0.581	0.580	0.722	0.693	0.669	0.642	0.606
44	ALL PERSONS 45 TO 54	0.437	0.433	0.430	0.427	0.425	0.425	0.426	0.429	0.456	0.452	0.445	0.439	0.430
45	ALL PERSONS 55 TO 64	0.129	0.127	0.125	0.123	0.121	0.119	0.118	0.117	0.146	0.140	0.137	0.131	0.124
46	ALL PERSONS 65+	6.509	6.479	6.398	6.349	6.268	6.180	6.121	6.101	7.085	7.010	6.834	6.656	6.333

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL RUN FORECAST OCTOBER 1977

TABLE 1.20 UNEMPLOYMENT RATES AND POPULATION
1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2

LINE VAR LABEL	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
1 UNEMPLOYMENT RATES																				
2 Males 16 to 19	17.501	17.42	17.59	17.73	17.56	17.33	17.13	17.01	16.88	16.74	16.53	16.38	16.30							
3 Males 20 to 24	10.401	10.69	10.91	11.09	10.91	10.66	10.46	10.34	10.22	10.09	9.89	9.75	9.68							
4 Males 25 to 34	5.601	5.38	5.51	5.62	5.51	5.37	5.26	5.20	5.13	5.06	4.95	4.87	4.83							
5 Males 35 to 44	3.601	3.69	3.77	3.84	3.76	3.69	3.63	3.59	3.55	3.51	3.45	3.41	3.39							
6 Males 45 to 54	3.301	3.57	3.65	3.71	3.65	3.58	3.52	3.49	3.46	3.43	3.37	3.34	3.32							
7 Males 55 to 64	3.301	3.51	3.58	3.63	3.58	3.53	3.49	3.46	3.44	3.42	3.37	3.35	3.34							
8 Males 65+	5.501	5.22	5.28	5.33	5.28	5.22	5.18	5.15	5.13	5.10	5.05	5.03	5.01							
9 All Males	6.231	6.287	6.408	6.506	6.409	6.279	6.175	6.114	6.050	5.980	5.869	5.797	5.754							
10 Females 16 to 19	18.801	18.46	18.54	18.61	18.48	18.31	18.14	18.03	17.92	17.79	17.61	17.47	17.39							
11 Females 20 to 24	11.001	10.98	11.09	11.18	11.06	10.90	10.76	10.68	10.59	10.49	10.35	10.24	10.18							
12 Females 25 to 34	7.901	7.62	7.71	7.77	7.70	7.54	7.51	7.46	7.40	7.34	7.25	7.19	7.15							
13 Females 35 to 44	5.601	5.53	5.60	5.65	5.59	5.51	5.44	5.40	5.36	5.31	5.24	5.19	5.16							
14 Females 45 to 54	5.201	4.57	4.64	4.69	4.64	4.57	4.51	4.48	4.45	4.41	4.35	4.31	4.29							
15 Females 55 to 64	4.301	4.28	4.34	4.38	4.34	4.29	4.24	4.22	4.19	4.17	4.12	4.10	4.08							
16 Females 65+	5.001	4.14	4.19	4.22	4.18	4.12	4.07	4.04	4.01	3.97	3.92	3.88	3.86							
17 All Females	8.249	8.001	8.071	8.125	8.040	7.926	7.827	7.766	7.703	7.634	7.536	7.468	7.428							
18 All Persons 16 to 19	18.091	17.898	18.072	18.131	17.981	17.772	17.585	17.471	17.350	17.212	17.020	16.876	16.790							
19 All Persons 20 to 24	10.671	10.822	10.993	11.131	10.977	10.768	10.598	10.498	10.392	10.275	10.100	9.980	9.912							
20 All Persons 25 to 34	6.518	6.258	6.359	6.443	6.342	6.211	6.107	6.040	5.942	5.814	5.684	5.584	5.510							
21 All Persons 35 to 44	4.403	4.411	4.485	4.547	4.483	4.397	4.331	4.294	4.254	4.212	4.155	4.102	4.074							
22 All Persons 45 to 54	4.050	3.966	4.040	4.100	4.045	3.973	3.919	3.889	3.857	3.824	3.768	3.734	3.716							
23 All Persons 55 to 64	3.681	3.809	3.874	3.926	3.884	3.829	3.790	3.769	3.746	3.723	3.681	3.657	3.645							
24 All Persons 65+	5.312	4.808	4.855	4.892	4.844	4.782	4.732	4.701	4.669	4.635	4.588	4.549	4.528							
25 All Persons	7.001	6.99	7.08	7.16	7.07	6.95	6.85	6.79	6.72	6.65	6.55	6.48	6.44							
26 All Persons 16 to 65+	-0.060	-0.149	-0.156	-0.162	-0.161	-0.161	-0.162	-0.163	-0.164	-0.164	-0.164	-0.164	-0.165							
27 All Persons 65+	1.000	0.979	0.979	0.978	0.978	0.977	0.977	0.976	0.976	0.976	0.976	0.976	0.975							
28 POPULATION IN MILLIONS																				
29 Males 16 to 19	8.169	8.160	8.156	8.153	8.150	8.143	8.130	8.119	8.110	8.096	8.078	8.070	8.065							
30 Males 20 to 24	9.175	9.208	9.254	9.304	9.355	9.394	9.422	9.454	9.490	9.517	9.534	9.551	9.571							
31 Males 25 to 34	15.556	15.755	15.853	15.940	16.026	16.140	16.282	16.420	16.546	16.683	16.831	16.975	17.114							
32 Males 35 to 44	11.048	11.147	11.249	11.357	11.465	11.559	11.638	11.721	11.810	11.890	11.962	12.036	12.114							
33 Males 45 to 54	11.191	11.136	11.113	11.092	11.070	11.044	11.014	10.983	10.953	10.926	10.902	10.876	10.849							
34 Males 55 to 64	9.500	9.496	9.523	9.550	9.577	9.603	9.629	9.655	9.681	9.706	9.730	9.755	9.781							
35 Males 65+	9.165	9.065	9.103	9.140	9.177	9.215	9.251	9.288	9.325	9.362	9.400	9.439	9.479							
36 Females 16 to 19	8.165	8.303	8.298	8.296	8.294	8.285	8.269	8.255	8.244	8.228	8.208	8.196	8.187							
37 Females 20 to 24	9.840	9.938	9.985	10.035	10.086	10.126	10.156	10.190	10.228	10.256	10.275	10.293	10.315							
38 Females 25 to 34	16.509	16.656	16.754	16.840	16.926	17.041	17.185	17.324	17.451	17.590	17.740	17.883	18.023							
39 Females 35 to 44	11.958	12.031	12.137	12.248	12.360	12.458	12.542	12.630	12.723	12.809	12.886	12.968	13.053							
40 Females 45 to 54	12.024	11.966	11.935	11.906	11.877	11.844	11.805	11.767	11.729	11.694	11.662	11.625	11.587							
41 Females 55 to 64	10.630	10.665	10.698	10.731	10.764	10.797	10.830	10.864	10.898	10.930	10.960	10.991	11.023							
42 All Persons 65+	13.023	13.059	13.127	13.197	13.266	13.333	13.397	13.460	13.525	13.590	13.656	13.724	13.791							
43 All Persons 16 to 65+	156.11	156.6	157.2	157.8	158.4	159.0	160.1	160.7	161.3	161.8	162.4	162.9	163.4							

A PRODUCT OF WHARTON FFA, 4025 CHESTNUT ST., PHILA. PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL ONE FORECAST OCTOBER 1977

TABLE 1.20 UNEMPLOYMENT RATES AND POPULATION

LINE VAR LABEL	I	F	M	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
UNEMPLOYMENT RATES																
1																
2	NRUT16.19	M	MALES 16 TO 19	16.10	15.84	15.63	15.47	15.27	15.06	14.89	14.62	14.15	17.55	16.94	16.33	15.55
3	NRUT20.24	M	MALES 20 TO 24	9.50	9.25	9.04	8.92	8.74	8.55	8.42	8.34	11.35	10.89	10.28	9.71	8.99
4	NRUT25.34	M	MALES 25 TO 34	4.74	4.60	4.49	4.42	4.32	4.22	4.16	4.14	5.83	5.50	5.16	4.85	4.46
5	NRUT35.44	M	MALES 35 TO 44	3.33	3.25	3.19	3.15	3.09	3.04	3.01	3.01	3.82	3.77	3.57	3.39	3.17
6	NRUT45.54	M	MALES 45 TO 54	3.28	3.21	3.15	3.12	3.07	3.03	3.01	3.01	3.78	3.65	3.48	3.31	3.14
7	NRUT55.64	M	MALES 55 TO 64	3.31	3.24	3.21	3.19	3.16	3.13	3.12	3.14	3.68	3.58	3.45	3.34	3.20
8	NRUT65+	M	MALES 65+	4.97	4.92	4.87	4.84	4.81	4.77	4.76	4.76	5.46	5.28	5.14	5.02	4.86
9	NRUT16.19	F	FEMALES 16 TO 19	5.657	5.514	5.410	5.333	5.229	5.122	5.046	5.015	6.637	6.400	6.080	5.769	5.372
10	NRUT20.24	F	FEMALES 20 TO 24	17.21	16.98	16.80	16.65	16.46	16.25	16.06	15.95	18.73	18.48	17.47	17.42	16.72
11	NRUT25.34	F	FEMALES 25 TO 34	10.04	9.86	9.71	9.61	9.46	9.31	9.18	9.12	11.51	11.06	10.63	10.20	9.66
12	NRUT35.44	F	FEMALES 35 TO 44	7.07	6.96	6.87	6.81	6.72	6.63	6.57	6.54	8.01	7.69	7.43	7.17	6.83
13	NRUT45.54	F	FEMALES 45 TO 54	5.10	5.01	4.94	4.89	4.83	4.76	4.71	4.70	5.76	5.59	5.38	5.17	4.92
14	NRUT55.64	F	FEMALES 55 TO 64	4.24	4.17	4.12	4.08	4.03	3.98	3.95	3.94	4.99	4.63	4.46	4.30	4.10
15	NRUT65+	F	FEMALES 65+	4.05	3.99	3.95	3.92	3.89	3.85	3.84	3.84	4.54	4.34	4.21	4.09	3.94
16	NRUT16.19	I	ALL MALES	3.81	3.74	3.69	3.65	3.60	3.55	3.50	3.48	4.43	4.18	4.02	3.87	3.67
17	NRUT20.24	I	ALL FEMALES	7.538	7.215	7.114	7.087	6.949	6.843	6.761	6.719	8.336	8.040	7.733	7.443	7.082
18	NRUT25.34	I	ALL PERSONS 16 TO 19	16.605	16.358	16.161	16.012	15.812	15.601	15.430	15.337	18.417	17.978	17.405	16.823	16.086
19	NRUT30.24	I	ALL PERSONS 20 TO 24	9.754	9.536	9.366	9.243	9.076	8.909	8.784	8.711	11.423	10.967	10.441	9.931	9.306
20	NRUT35.34	I	ALL PERSONS 25 TO 34	5.620	5.494	5.396	5.328	5.237	5.146	5.084	5.064	6.685	6.339	6.014	5.723	5.384
21	NRUT45.54	I	ALL PERSONS 35 TO 44	4.021	3.938	3.873	3.827	3.771	3.711	3.674	3.665	4.593	4.478	4.273	4.087	3.852
22	NRUT55.64	I	ALL PERSONS 45 TO 54	3.070	3.001	2.947	2.910	2.863	2.818	2.783	2.761	3.421	3.284	3.173	3.072	2.930
23	NRUT65+	I	ALL PERSONS 55 TO 64	3.611	3.559	3.518	3.490	3.457	3.428	3.416	3.422	4.007	3.878	3.757	3.648	3.506
24	NRUT16.19	I	ALL PERSONS 65+	4.483	4.420	4.369	4.332	4.286	4.241	4.210	4.200	5.071	4.843	4.684	4.536	4.352
25	NRUT	I	ALL PERSONS 16 TO 65+	6.35	6.22	6.11	6.04	5.94	5.83	5.75	5.72	7.31	7.07	6.75	6.45	6.08
26	NRUT DIFF	I	NRUT - SUM NRUT(I)	-0.163	-0.159	-0.159	-0.160	-0.154	-0.142	-0.131	-0.124	-0.056	-0.160	-0.163	-0.164	-0.158
27	NRUT LOC	I	NRUT / NRUT(I)	0.975	0.975	0.975	0.974	0.975	0.976	0.976	0.976	0.995	0.978	0.976	0.975	0.975
POPULATION IN MILLIONS																
29	PPCH16.19	F	MALES 16 TO 19	8.033	7.975	7.923	7.881	7.826	7.757	7.691	7.630	8.159	8.150	8.114	8.062	7.901
30	PPCH20.24	F	MALES 20 TO 24	9.594	9.619	9.654	9.688	9.698	9.684	9.674	9.673	9.142	9.327	9.471	9.563	9.665
31	PPCH25.34	F	MALES 25 TO 34	17.265	17.426	17.623	17.818	17.920	17.931	17.932	17.968	15.506	15.990	16.483	17.047	17.697
32	PPCH35.44	F	MALES 35 TO 44	12.186	12.251	12.276	12.301	12.331	12.367	12.414	12.421	11.031	11.407	11.765	12.074	12.315
33	PPCH45.54	F	MALES 45 TO 54	10.827	10.812	10.795	10.775	10.760	10.750	10.738	10.724	11.197	11.080	10.969	10.863	10.785
34	PPCH55.64	F	MALES 55 TO 64	9.808	9.823	9.844	9.866	9.886	9.903	9.923	9.943	9.470	9.563	9.668	9.768	9.855
35	PPCH65+	F	MALES 65+	9.514	9.544	9.575	9.604	9.639	9.669	9.698	9.727	9.102	9.159	9.307	9.458	9.592
36	PPCH16.19	F	FEMALES 16 TO 19	8.155	8.101	8.053	8.014	7.960	7.892	7.826	7.765	8.301	8.293	8.249	8.187	8.032
37	PPCH20.24	F	FEMALES 20 TO 24	10.338	10.362	10.395	10.424	10.438	10.424	10.414	10.413	9.825	10.058	10.207	10.305	10.406
38	PPCH25.34	F	FEMALES 25 TO 34	18.177	18.345	18.550	18.752	18.859	18.872	18.876	18.915	16.445	16.891	17.388	17.956	18.621
39	PPCH35.44	F	FEMALES 35 TO 44	13.127	13.189	13.211	13.234	13.265	13.302	13.345	13.360	11.931	12.301	12.676	13.008	13.250
40	PPCH45.54	F	FEMALES 45 TO 54	11.559	11.541	11.520	11.494	11.476	11.466	11.452	11.434	12.035	11.890	11.749	11.608	11.508
41	PPCH55.64	F	FEMALES 55 TO 64	11.051	11.075	11.100	11.126	11.149	11.169	11.190	11.213	10.608	10.747	10.880	11.006	11.112
42	PPCH65+	F	FEMALES 65+	13.854	13.911	13.969	14.029	14.087	14.142	14.197	14.252	12.990	13.231	13.493	13.756	13.999
43	PPCH16.19	I	ALL PERSONS 16 TO 19	163.5	164.0	164.5	165.0	165.5	165.9	166.4	166.8	155.7	158.1	160.4	162.7	164.8

A PRODUCT OF WHARTON E.P.A., 4025 CHESTNUT ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION

TABLE 1.30 CONSTANT ADJUSTMENTS TO LABOR FORCE EQUATIONS
1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2 1980.3

LINE	VAP LABEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	NLCM16.19	M	MALES	16	TO	19	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	NLCM20.24	B	MALES	20	TO	24	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	NLCM25.34	B	MALES	25	TO	34	---	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
4	NLCM35.44	B	MALES	35	TO	44	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	NLCM45.54	B	MALES	45	TO	54	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	NLCM55.64	B	MALES	55	TO	64	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	NLCM65+	B	MALES	65+				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	NLCF16.19	B	FEMALES	16	TO	19	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	NLCF20.24	B	FEMALES	20	TO	24	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	NLCF25.34	B	FEMALES	25	TO	34	---	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
11	NLCF35.44	B	FEMALES	35	TO	44	---	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
12	NLCF45.54	B	FEMALES	45	TO	54	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	NLCF55.64	B	FEMALES	55	TO	64	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	NLCF65+	B	FEMALES	65+				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	UNEMPLOYMENT RATES																														
16	NRUTM16.19	B	MALES	16	TO	19	---	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
17	NRUTM20.24	B	MALES	20	TO	24	---	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
18	NRUTM25.34	B	MALES	25	TO	34	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	NRUTM35.44	B	MALES	35	TO	44	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	NRUTM45.54	B	MALES	45	TO	54	---	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
21	NRUTM55.64	B	MALES	55	TO	64	---	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
22	NRUTF16.19	B	FEMALES	16	TO	19	---	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
23	NRUTF20.24	B	FEMALES	20	TO	24	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	NRUTF25.34	B	FEMALES	25	TO	34	---	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
25	NRUTF35.44	B	FEMALES	35	TO	44	---	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
26	NRUTF45.54	B	FEMALES	45	TO	54	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	NRUTF55.64	B	FEMALES	55	TO	64	---	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
28	NRUTF65+	B	FEMALES	65+				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	NLSIRMPH	B	REAL CUMP	PER	MNR			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THE "HARRISON QUARTERLY MODEL MARK 4.7
SPECIAL UMR FORECAST: OCTOBER 1977

TABLE 1.30 CONSTANT ADJUSTMENTS TO LABOR FORCE EQUATIONS

LINE	VAR	NAME	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2
1	MC	16.19 F	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	MC	20.24 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	MC	25.34 M	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
4	MC	35.44 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	MC	45.54 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	MC	55.64 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	MC	65.74 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	MC	16.19 F	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	MC	20.24 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	MC	25.34 M	0.35	0.35	0.35	0.35	0.35	0.35	0.35
11	MC	35.44 M	0.20	0.20	0.20	0.20	0.20	0.20	0.20
12	MC	45.54 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	MC	55.64 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	MC	65.74 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	MC	16.19 F	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
16	MC	20.24 M	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
17	MC	25.34 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	MC	35.44 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	MC	45.54 M	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
20	MC	55.64 M	1.00	1.00	1.00	1.00	1.00	1.00	1.00
21	MC	65.74 M	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
22	MC	16.19 F	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	MC	20.24 M	0.05	0.05	0.05	0.05	0.05	0.05	0.05
24	MC	25.34 M	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
25	MC	35.44 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	MC	45.54 M	0.50	0.50	0.50	0.50	0.50	0.50	0.50
27	MC	55.64 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	MC	65.74 M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	MC	16.19 F	0.0	0.0	0.0	0.0	0.0	0.0	0.0

A PRODUCT OF CHARTER, L.P.A., 4025 CHESTNUT ST., PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION

THE HARBOR QUARTERLY MODEL MARK 4.0
SPECIAL ANN FORECAST: OCTOBER 1977

LINE VAR LABEL		TABLE 1.00 SELECTED MAJOR ECONOMIC INDICATORS											
		1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1
1	GDP	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2	GDP	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71
3	GDP	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
4	GDP	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71
5	GDP	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
6	GDP	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71	13.71
7	PGDP	140.51	142.7	144.8	147.1	149.0	150.9	153.1	155.2	157.3	159.6	162.0	165.0
8	PGDP	7.101	6.29	6.14	6.57	5.14	5.07	5.98	5.64	5.52	6.01	6.20	7.54
9	PC	8.871	6.71	5.25	6.75	5.83	5.72	5.65	5.98	6.21	6.70	5.84	7.73
10	PC	10.191	0.49	3.17	0.76	7.03	7.32	5.94	5.56	7.00	10.28	5.17	8.94
11	PC	10.191	0.49	3.17	0.76	7.03	7.32	5.94	5.56	7.00	10.28	5.17	8.94
12	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
13	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
14	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
15	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
16	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
17	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
18	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
19	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
20	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
21	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
22	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
23	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
24	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
25	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
26	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
27	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
28	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
29	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
30	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
31	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
32	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
33	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
34	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
35	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
36	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
37	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
38	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
39	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
40	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
41	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
42	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
43	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
44	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
45	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0
46	YD	13.481	8.88	10.49	10.66	9.85	8.17	9.42	11.57	8.82	11.85	8.86	8.86
47	YD	1292.5	1319.4	1352.7	1387.4	1420.4	1448.6	1481.5	1522.7	1555.2	1599.3	1633.6	1688.0

A PRODUCT OF CHARLTON E.F.A., 4025 CHESTNUT ST., PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE W H A R T I N G U A M I E R L Y M O D E L M A N A 4.6
SPECIAL GNP FORECAST OCTOBER 1977

LINE VAR LABEL	I T F	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
TABLE 1.00 SELECTED MAJOR ECONOMIC INDICATORS														
1 GNP3	I	2552.6	2610.2	2679.7	2739.1	2804.2	2873.2	2937.1	3000.1	1114.1	1204.9	2290.4	2524.2	2774.0
2 GNP5	I	10.09	10.68	9.74	9.16	9.55	10.22	9.20	8.85	10.75	10.36	9.62	10.21	9.90
3														
4 GNP	I	1502.1	1515.3	1527.8	1539.1	1553.1	1564.5	1574.4	1584.1	1133.7	1392.5	1444.7	1494.4	1546.1
5 GNP	I	4.28	3.58	3.34	2.97	3.69	2.97	2.55	2.51	4.02	4.13	3.75	4.07	3.63
6														
7 PDGNP	I	169.9	172.8	175.4	178.0	180.6	183.7	186.6	189.4	141.5	150.0	158.5	168.8	179.4
8 PDGNP	I	5.57	6.85	6.20	6.00	5.94	7.04	6.48	6.19	5.74	5.94	5.66	6.51	6.25
9														
10 PC4	H	5.94	6.28	5.53	6.63	6.51	6.76	7.12	6.90	6.63	6.22	6.00	6.71	6.47
11 PC4	H	6.05	6.17	7.70	5.74	6.23	5.75	7.46	5.40	6.00	6.20	6.02	7.65	6.61
12														
13 YPDS	I	1754.2	1787.7	1824.0	1861.5	1917.0	1951.1	1990.4	2030.0	1134.1	1434.5	1577.7	1720.0	1884.4
14 YPDS	I	12.16	7.85	8.38	8.48	12.45	7.32	8.30	8.20	9.99	9.06	9.98	9.58	9.21
15														
16 YPD	I	1048.8	1054.0	1060.0	1065.9	1081.7	1084.5	1089.1	1093.8	926.8	965.5	1007.5	1040.7	1073.0
17 YPD	I	6.31	2.00	2.29	2.23	6.07	1.04	1.69	1.74	4.00	4.27	4.34	5.10	3.10
18														
19 RAXINPV	I	9.32	9.36	9.39	9.42	9.47	9.50	9.52	9.53	8.85	9.01	9.15	9.29	9.45
20 RAXINPV	I	2.42	1.67	1.47	1.22	1.97	1.29	1.06	1.10	1.00	1.77	1.61	1.50	1.62
21														
22 WRCPV3	I	9.10	9.26	9.45	9.63	9.83	10.02	10.23	10.43	7.21	7.79	8.36	9.01	9.71
23 WRCPV3	I	7.99	7.49	8.20	7.88	8.34	8.12	8.64	8.15	8.70	7.96	7.31	7.83	8.01
24														
25 IP	H	158.6	160.4	162.2	163.9	165.0	167.5	169.1	170.6	137.0	144.2	151.0	157.7	164.9
26 IP	H	4.69	4.71	4.65	4.30	4.54	4.21	3.85	3.53	5.57	5.23	4.76	4.43	4.52
27														
28 URUI	R	6.35	6.22	6.11	6.04	5.94	5.83	5.75	5.72	7.11	7.01	6.68	6.37	5.98
29														
30 TBRS	I	13.4	17.5	21.2	22.2	21.9	20.2	18.6	18.4	-10.5	-13.6	-4.7	10.4	21.4
31														
32 FMIS	I	410.9	420.6	428.4	437.9	447.9	458.8	466.9	476.6	324.7	350.0	375.1	406.9	441.1
33 FMIS	I	9.03	9.62	7.59	9.17	9.47	10.11	7.24	8.52	6.73	7.80	7.19	8.46	8.94
34														
35 CUMIP	H	92.31	92.52	92.69	92.71	92.93	92.95	92.89	92.79	89.62	91.00	91.69	92.18	92.82
36 CUMIP	H	1.56	0.91	0.74	0.69	0.94	0.00	-0.24	-0.42	2.39	1.54	0.74	0.54	0.69
37														
38 FPMIS	H	8.05	8.12	8.37	8.36	8.35	8.44	8.78	8.71	5.46	6.05	7.43	8.05	8.38
39 FPMIS	H	9.11	9.28	9.53	9.63	9.68	9.69	10.27	10.34	5.69	7.42	8.20	9.08	9.68
40 FPMIS	H	9.91	10.01	10.25	10.39	10.47	10.56	10.80	11.03	6.08	8.37	9.02	9.81	10.42
41 FPMIS	H	9.71	9.89	10.08	10.28	10.48	10.59	10.74	10.89	8.46	8.73	9.03	9.62	10.35
42														
43 YPDSAV	I	7.04	6.92	6.84	6.89	7.49	7.20	7.06	6.95	4.89	5.40	6.19	6.68	7.12
44														
45 CPURTS	I	264.3	273.5	283.7	289.2	297.1	303.1	310.8	314.2	179.7	206.3	229.0	262.6	293.3
46														
47 GVSUMPS	I	-52.9	-43.8	-36.2	-32.1	-42.5	-32.2	-25.2	-21.2	-43.3	-49.7	-57.9	-47.0	-35.8

A PRODUCT OF W H A R T I N G U A M I E R L Y M O D E L M A N A 4.6, 4025 CHESTNUT ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE MAIN TION QUARTERLY MODEL MARK 4.6
SPECIAL OMR FORECAST: OCTOBER 1977

LINE VAR LABEL	ITEM	TABLE	2.00 GROSS NATIONAL PRODUCT IN CURRENT DOLLARS	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	GNP	1	GROSS NATIONAL PRODUCT	1069.9	1191.9	0	1713.5	2019.8	2065.7	2110.5	2161.4	2210.6	2261.3	2315.6	2374.2	2434.3
2																
3	CE	1	PERSONAL CONSUMPTION	1194.0	1122.9	0	1251.0	1281.5	1309.8	1337.0	1365.0	1396.8	1426.7	1460.3	1491.2	1525.3
4	CE	1	DURABLE GOODS	170.6	179.0	0	164.3	189.0	193.2	197.0	200.8	204.5	211.2	214.5	217.7	220.9
5	CE	1	NONDURABLE GOODS	474.0	479.0	0	486.6	496.3	505.7	514.9	524.8	535.5	546.4	559.6	570.6	584.0
6	CE	1	SERVICES	541.1	564.5	0	580.0	596.2	610.9	625.1	639.9	656.7	672.6	689.4	706.2	723.7
7																
8	INT	1	GROSS PRIVATE DOMESTIC	290.9	301.1	0	318.2	327.0	335.6	342.0	348.6	354.8	363.7	372.0	381.6	393.4
9	INT	1	FIXED INVESTMENT	273.2	283.4	0	295.9	307.0	317.1	323.3	330.1	337.3	344.7	353.5	362.6	374.1
10	INT	1	NONRESIDENTIAL	182.4	189.8	0	198.0	207.2	216.5	224.1	232.0	238.6	245.1	252.7	260.7	270.2
11	INT	1	RESIDENTIAL STRUCTURE	90.8	94.1	0	97.8	100.7	100.6	99.2	98.1	98.7	99.6	100.8	101.9	103.8
12																
13	INT	1	CHG IN BUSINESS INVEN	21.7	17.2	0	22.3	19.2	18.5	18.7	18.6	17.1	19.1	18.5	19.0	19.3
14																
15	INT	1	NET EXPORTS	-9.7	-10.6	0	-13.6	-15.3	-15.2	-13.2	-10.6	-8.1	-6.1	-3.7	-0.8	3.0
16	INT	1	EXPORTS	178.1	181.5	0	185.5	190.6	196.7	204.2	212.6	220.9	229.7	239.3	249.0	258.8
17	INT	1	IMPORTS	187.7	192.1	0	199.1	205.9	211.9	217.4	223.2	229.0	235.8	243.0	249.8	262.4
18																
19	GOV	1	GOV PURCHASES OF GOOD	390.6	405.6	0	417.8	426.6	435.5	444.7	454.3	467.5	477.0	487.0	502.3	512.6
20	GOV	1	FEDERAL	143.6	151.5	0	157.9	160.7	163.5	166.5	173.7	176.4	179.1	182.3	190.6	196.9
21	GOV	1	STATE AND LOCAL	93.4	97.3	0	101.7	103.2	104.7	106.4	110.9	112.6	114.3	116.4	121.6	125.3
22	GOV	1	DEFENSE	50.2	54.2	0	56.2	57.5	58.8	60.1	62.8	63.8	64.8	65.9	69.0	70.3
23	GOV	1	OTHER	247.0	250.1	0	259.9	265.9	272.0	278.2	284.6	291.2	297.8	304.7	311.7	318.0

THE MAIN TION QUARTERLY MODEL MARK 4.6
SPECIAL OMR FORECAST: OCTOBER 1977

LINE VAR LABEL	ITEM	TABLE	2.00 GROSS NATIONAL PRODUCT IN CURRENT DOLLARS	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	GNP	1	GROSS NATIONAL PRODUCT	2552.6	2610.2	2679.7	2739.1	2804.2	2873.2	2937.1	3000.1	11893.3	2089.4	2290.4	2524.2	2774.0
2																
3	CE	1	PERSONAL CONSUMPTION	1502.3	1625.3	1659.1	1693.7	1733.3	1770.2	1809.0	1847.0	1210.1	1321.3	1443.7	1575.2	1714.1
4	CE	1	DURABLE GOODS	224.2	227.7	0	231.1	234.4	238.9	243.1	247.3	251.6	179.8	194.9	209.5	222.5
5	CE	1	NONDURABLE GOODS	609.0	620.8	0	632.6	644.6	658.4	670.9	684.0	696.9	476.7	510.4	553.0	602.6
6	CE	1	SERVICES	754.1	776.8	0	795.4	814.8	836.0	856.2	877.6	899.0	553.6	618.0	681.2	750.0
7																
8	INT	1	GROSS PRIVATE DOMESTIC	412.9	425.4	0	430.1	440.3	448.1	454.5	460.5	466.5	338.3	367.9	400.8	458.2
9	INT	1	FIXED INVESTMENT	394.5	405.3	0	417.9	430.6	444.3	458.3	473.0	486.2	277.7	319.6	349.5	437.8
10	INT	1	NONRESIDENTIAL	284.0	297.4	0	307.8	318.0	328.5	338.8	349.1	358.7	186.0	220.0	249.3	323.3
11	INT	1	RESIDENTIAL STRUCTURE	106.4	107.9	0	110.0	112.6	115.8	119.5	123.8	128.0	90.9	99.6	100.3	114.5
12																
13	INT	1	CHG IN BUSINESS INVEN	18.5	20.1	0	20.2	19.7	19.9	21.0	21.5	20.3	18.8	18.4	19.3	20.4
14																
15	INT	1	NET EXPORTS	13.4	17.5	0	21.2	22.2	21.9	20.2	18.6	18.0	-10.5	-4.7	10.4	21.4
16	INT	1	EXPORTS	280.8	290.0	0	298.0	303.8	308.2	312.5	317.1	321.8	178.9	201.0	234.9	305.6
17	INT	1	IMPORTS	267.5	272.5	0	276.8	281.6	286.3	292.3	298.5	303.1	189.8	214.6	264.6	284.3
18																
19	GOV	1	GOV PURCHASES OF GOOD	533.9	550.0	0	561.3	572.8	584.7	602.8	615.1	627.7	397.2	441.3	483.4	580.4
20	GOV	1	FEDERAL	200.3	208.8	0	212.2	215.7	219.4	229.1	232.0	236.7	147.3	166.1	182.1	219.1
21	GOV	1	STATE AND LOCAL	127.3	132.3	0	134.2	136.2	138.4	144.3	146.8	148.1	95.5	106.3	116.2	130.3
22	GOV	1	DEFENSE	75.1	76.5	0	78.0	79.5	81.0	84.8	86.4	88.1	51.8	59.4	65.9	72.9
23	GOV	1	OTHER	333.6	341.3	0	349.1	357.1	365.3	373.7	382.3	391.0	249.9	275.2	301.3	361.3

TABLE 2.10 X CHG GROSS NATIONAL PRODUCT IN CURRENT DOLLARS
1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2

LINE VAR LABEL	I	I I	I I I	I I I I	I I I I I	I I I I I I	I I I I I I I	I I I I I I I I	I I I I I I I I I	I I I I I I I I I I	I I I I I I I I I I I	I I I I I I I I I I I I
1 GNP	13.71	10.92	11.45	9.73	9.40	8.96	10.00	9.42	9.49	9.95	10.51	9.83
2												
3 CES	7.50	10.02	9.52	10.13	9.12	8.56	8.67	9.63	8.83	9.77	8.73	8.78
4 CEDS	3.66	1.71	11.44	10.62	9.21	8.02	7.10	8.60	6.19	7.15	6.22	5.03
5 CENS	6.06	3.95	6.52	8.17	7.81	7.47	7.91	8.42	8.39	10.01	8.06	9.73
6 CESS	9.63	18.44	11.49	11.64	10.18	9.64	9.80	10.95	10.03	10.40	10.07	9.71
7												
8 INTS	30.50	8.70	24.74	11.50	10.90	7.06	7.99	6.83	10.94	9.34	10.72	10.48
9 INFS	25.73	16.62	17.98	17.12	12.63	8.01	8.68	9.10	9.00	10.56	10.77	11.37
10 INFS	12.77	17.19	18.61	19.70	19.40	14.74	14.82	11.96	11.23	12.96	13.37	13.72
11 INFS	57.91	15.48	16.74	12.02	-0.38	-5.46	-4.28	2.57	3.77	4.81	4.45	7.70
12												
13 INFS	19.34	7.87	9.10	11.52	13.42	16.19	17.33	16.72	16.88	17.82	17.06	18.44
14 INFS	21.99	9.49	15.36	14.51	12.10	10.84	10.98	10.93	12.43	12.81	11.60	10.59
15												
16 GVPIS	17.83	16.27	12.62	8.66	8.63	8.73	12.81	8.24	8.36	8.68	13.14	8.45
17 GVPIS	23.21	23.89	18.00	7.29	7.21	7.47	18.51	6.21	6.49	7.33	19.43	6.74
18 GVPIS	17.55	17.78	19.36	6.04	6.04	6.54	18.11	6.03	6.53	7.54	14.10	6.03
19 GVPIS	33.52	35.49	15.60	9.50	9.35	9.14	19.21	6.52	6.42	6.97	20.00	8.00
20 GVPIS	15.04	12.00	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50

A PRODUCT OF WHARTON FFA, 4025 CHESTNUT ST, PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

TABLE 2.10 X CHG GROSS NATIONAL PRODUCT IN CURRENT DOLLARS
1980.3 1980.4 1981.1 1981.2 1981.3 1981.4 1982.1 1982.2 1977 1978 1979 1980 1981

LINE VAR LABEL	I	I I	I I I	I I I I	I I I I I	I I I I I I	I I I I I I I	I I I I I I I I	I I I I I I I I I	I I I I I I I I I I	I I I I I I I I I I I	I I I I I I I I I I I I
1 GNP	10.09	10.68	9.74	9.16	9.85	10.22	9.20	8.85	10.95	10.36	9.62	10.21
2												
3 CES	9.17	8.53	8.60	8.60	9.67	8.81	9.04	8.78	10.62	9.36	9.10	8.82
4 CEDS	7.13	6.39	6.11	5.81	7.96	7.06	7.19	7.09	13.16	8.38	7.49	6.23
5 CENS	8.49	7.94	7.82	7.80	8.05	7.86	8.02	7.73	7.66	7.09	8.35	8.13
6 CESS	10.34	9.64	9.97	10.07	10.82	10.07	10.37	10.09	12.46	11.63	10.23	10.10
7												
8 INTS	9.70	12.62	12.46	11.66	12.99	14.34	12.56	10.10	21.85	14.09	8.76	11.11
9 INFS	11.08	11.41	12.99	12.76	13.39	13.13	13.48	11.80	20.76	15.06	9.37	11.44
10 INFS	13.49	13.68	14.73	13.83	13.98	13.10	12.79	10.80	15.37	17.74	13.33	13.81
11 INFS	4.85	5.44	6.26	9.81	11.76	13.22	15.44	14.19	33.64	9.54	0.64	5.56
12												
13 INFS	17.04	13.73	11.49	8.04	5.94	5.62	6.05	6.05	9.84	12.39	16.76	17.11
14 INFS	8.00	7.81	6.39	7.15	6.88	6.66	8.73	6.70	22.11	13.33	11.57	10.49
15												
16 GVPIS	8.58	12.61	8.45	8.45	8.58	12.92	8.45	8.45	9.92	11.09	9.55	9.61
17 GVPIS	7.06	17.95	6.75	6.75	7.07	18.79	6.75	6.75	13.22	12.75	9.64	9.58
18 GVPIS	6.53	16.78	6.83	6.83	6.53	18.08	6.83	6.83	10.88	11.29	9.35	8.83
19 GVPIS	8.00	20.00	8.00	8.00	8.00	20.00	8.00	8.00	19.55	15.39	10.15	10.65
20 GVPIS	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	8.88	10.13	9.50	9.50

A PRODUCT OF WHARTON FFA, 4025 CHESTNUT ST, PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE MARTIN QUARTERLY MODEL MARK 4.6
SPECIAL ONR FORECAST: OCTOBER 1977

LINE VAR LABEL		I T E M		TABLE 3.00 GROSS NATIONAL PRODUCT IN CONSTANT DOLLARS												
				1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	GMP	I	GROSS NATIONAL PRODUCT-	1330.7	1334.9	1362.7	1372.7	1386.4	1399.0	1412.1	1424.6	1437.8	1451.0	1465.5	1475.5	1486.4
2		I	PERSONAL CONSUMPTION E	854.1	861.2	871.0	879.3	887.2	894.4	902.0	911.0	917.8	925.8	933.2	938.8	944.0
3	CE	I	DURABLE GOODS-----	137.9	137.2	140.3	142.6	144.6	146.3	148.0	149.6	150.5	152.0	153.1	153.5	153.8
4	CED	I	NONDURABLE GOODS-----	330.0	330.1	332.4	334.9	337.7	340.2	343.2	347.3	350.1	353.1	356.2	358.5	360.4
5	CEN	I	SERVICES-----	386.3	393.9	398.3	401.9	405.0	407.9	410.8	414.2	417.2	420.7	423.9	426.8	429.8
6	CER	I														
7		I	GROSS PRIVATE DOMESTIC	197.2	198.7	206.0	206.9	209.3	210.8	212.0	211.6	214.0	215.4	217.8	219.5	221.1
8	INT	I	FIXED INVESTMENT-----	184.0	187.2	192.1	195.5	198.4	199.3	200.7	201.5	202.8	204.6	206.8	208.6	210.6
9	INF	I	RESIDENTIAL-----	126.0	129.2	133.1	136.6	140.9	143.8	146.9	148.6	150.4	152.6	155.2	157.4	159.7
10	INFN	B	RESIDENTIAL STRUCTUR	57.6	58.0	59.0	58.9	57.5	55.4	53.8	52.8	52.3	51.9	51.6	51.2	50.9
11	INFN	I														
12		I	CHG IN BUSINESS INVEN	13.2	11.4	13.8	11.4	11.0	11.5	11.3	10.1	11.3	10.8	10.9	10.9	10.7
13	INT	I														
14		I	NET EXPORTS-----	9.4	8.9	7.9	7.1	7.8	9.2	10.9	12.5	14.1	15.6	17.5	18.7	20.6
15	THH	I	EXPORTS-----	98.5	98.6	99.3	99.9	101.5	103.8	106.4	108.7	111.3	113.8	116.7	118.4	121.1
16	TFB	I	IMPORTS-----	89.1	89.7	91.4	92.8	93.7	94.6	95.4	96.2	97.2	98.2	99.2	99.7	100.6
17	THH	I														
18		I	GOVT PURCHASES OF GOOD	270.0	276.1	277.8	279.4	282.0	284.6	287.1	289.5	291.9	294.2	297.0	298.5	300.6
19	GVPT	I	FEDERAL-----	101.1	105.3	105.8	106.5	107.4	108.2	108.9	109.6	110.2	110.9	111.9	112.2	112.7
20	GVPT	B	NATURAL DEFENSE-----	65.8	67.6	68.2	68.4	68.8	69.2	69.6	70.0	70.4	70.8	71.4	71.5	71.7
21	GVPTD	B	OTHER-----	35.4	37.7	37.7	38.1	38.6	39.1	39.4	39.7	39.9	40.1	40.5	40.7	41.0
22	GVPTD	B	STATE AND LOCAL-----	160.9	170.8	171.9	172.9	174.6	176.4	178.2	179.9	181.6	183.3	185.2	186.3	187.9
23	GVPS	B														

THE MARTIN QUARTERLY MODEL MARK 4.6
SPECIAL ONR FORECAST: OCTOBER 1977

LINE VAR LABEL		I T E M		TABLE 3.00 GROSS NATIONAL PRODUCT IN CONSTANT DOLLARS												
		1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981		
1	GDP	I	GROSS NATIONAL PRODUCT	1502.1	1515.3	1527.8	1539.1	1553.1	1564.5	1574.4	1584.1	11337.3	1392.5	1444.7	1494.8	1546.1
2		I	PERSONAL CONSUMPTION	952.1	958.3	964.2	969.8	976.1	984.0	989.8	995.4	859.2	890.7	922.0	948.3	974.0
3	CE	I	DURABLE GOODS	155.0	156.0	156.7	157.3	158.8	159.9	160.9	161.8	138.1	145.4	151.3	154.6	158.2
4	CEN	I	NONDURABLE GOODS	363.7	365.8	368.1	370.2	373.3	375.2	377.2	379.0	330.6	339.0	351.7	362.1	371.7
5	CES	I	SERVICES	433.4	436.4	439.4	442.3	446.0	448.8	451.7	454.6	390.6	406.4	419.0	431.6	444.1
6		I	GROSS PRIVATE DOMESTIC	223.2	226.3	229.1	231.8	235.2	239.1	241.8	243.6	197.1	209.8	214.7	222.6	233.8
7	INT	I	FIXED INVESTMENT	213.0	215.5	218.4	221.5	224.9	228.1	231.1	233.5	185.1	198.5	203.4	211.9	223.2
8	INF	I	RESIDENTIAL	142.4	145.1	148.0	150.7	153.6	156.2	158.3	160.0	126.3	142.1	151.7	161.1	172.1
9	INF	B	RESIDENTIAL STRUCTURE	50.6	50.4	50.4	50.7	51.2	51.9	52.7	53.5	56.8	56.4	52.2	50.8	51.1
10		I	CHG. IN BUSINESSES INVEN	10.2	10.8	10.7	10.4	10.3	11.0	10.7	10.1	12.0	11.3	10.8	10.7	10.6
11		I	NET EXPORTS	23.3	25.0	26.2	26.5	26.1	25.0	24.0	23.7	9.2	8.0	14.9	21.9	26.0
12	EXP	I	EXPORTS	124.1	126.8	127.2	127.6	127.4	127.0	126.6	126.4	98.3	102.9	112.6	122.4	127.3
13	IMP	I	IMPORTS	100.8	101.0	101.0	101.1	101.3	101.9	102.6	102.8	89.1	94.1	97.7	100.5	101.3
14		I	GOVT PURCHASES OF GOODS	303.5	305.6	308.3	310.9	313.7	316.4	318.8	321.5	271.8	283.3	293.2	302.1	312.3
15	GDP	I	FEDERAL	113.7	114.1	114.9	115.6	116.4	117.2	117.9	118.6	102.3	107.8	110.7	113.2	116.0
16	GDP	B	NATURAL DEFENSE	72.2	72.3	72.7	73.0	73.4	73.8	74.1	74.4	66.3	69.0	70.6	71.9	73.2
17	GDP	B	OTHER	41.5	41.8	42.2	42.6	43.0	43.4	43.8	44.2	36.0	38.0	40.0	41.3	42.0
18	GDP	B	STATE AND LOCAL	189.8	191.7	193.4	195.3	197.3	199.2	201.0	202.9	169.5	175.5	182.5	188.9	194.3

SPECIAL UNR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T E M	TABLE 3.10 X CMG GROSS NATIONAL PRODUCT IN CONSTANT DOLLARS											
		1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1 GNP	I GROSS NATIONAL PRODUCT	6,151	4,35	5,37	2,97	4,05	3,70	3,80	3,58	3,76	3,72	4,06	2,76
2													
3 CE	I PERSONAL CONSUMPTION E	1,751	3,39	4,59	3,88	3,66	3,26	3,44	4,06	3,03	3,50	3,25	2,41
4 CED	I DURABLE GOODS	2,951	-2,15	9,58	6,59	5,66	5,00	4,61	4,34	2,59	3,86	2,99	1,10
5 CFN	I NONDURABLE GOODS	0,361	0,18	2,73	3,02	3,05	2,97	3,54	4,07	3,31	3,51	3,56	2,59
6 CES	I SERVICES	2,631	4,16	4,46	3,66	3,14	2,89	2,93	3,28	2,97	3,37	3,08	2,78
7													
8 INT	I GROSS PRIVATE DOMESTIC	24,471	2,98	15,58	1,84	4,72	2,81	2,44	-0,90	4,71	2,61	4,45	3,24
9 INF	I FIXED INVESTMENT	16,781	7,18	10,96	7,22	5,92	1,44	2,93	1,52	2,50	3,65	4,46	3,87
10 INFN	I NONRESIDENTIAL	6,931	9,16	12,74	10,95	11,04	8,63	8,94	4,68	4,92	5,96	7,05	5,99
11 INFN	H RESIDENTIAL STRUCTURE	42,711	2,94	7,07	-0,85	-9,30	-13,47	-11,51	-6,76	-5,80	-2,81	-2,89	-2,83
12													
13 FEB	I EXPIMTS	6,771	0,51	2,84	2,45	4,52	9,29	10,36	9,19	9,61	10,25	6,06	9,55
14 INF	I IMPIMTS	13,621	2,62	7,01	6,52	3,70	3,88	3,72	3,19	4,10	4,45	3,61	3,55
15													
16 GVPF	I GOVT PURCHASES OF GOOD	10,571	9,34	2,45	2,31	3,70	3,85	3,57	3,31	3,32	3,24	3,93	2,02
17 GVPF	I FEDERAL	18,011	17,72	1,98	2,58	3,28	3,33	2,60	2,53	2,26	2,48	3,57	1,07
18 GVPF	H NATIONAL DEFENSE	12,981	11,80	3,15	1,38	2,14	2,44	2,25	2,36	2,30	2,68	3,29	0,40
19 GVPF	H OTHER	20,331	20,99	-0,10	4,77	5,34	4,94	3,21	2,83	2,18	2,14	4,07	2,27
20 GVPF	H STATE AND LOCAL	6,151	4,55	2,74	2,14	4,09	4,17	3,78	3,97	3,70	4,14	2,59	3,40

A PRODUCT OF WHAMTON ETC., 4025 CHESTNUT ST., PHILA, PA 19104, WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

SPECIAL UNR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T E M	TABLE 3.10 X CMG GROSS NATIONAL PRODUCT IN CONSTANT DOLLARS											
		1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980
1 GNP	I GROSS NATIONAL PRODUCT	4,28	3,58	3,34	2,97	3,69	2,97	2,55	2,51	4,92	4,11	3,75	3,47
2													
3 CE	I PERSONAL CONSUMPTION E	3,48	2,63	2,50	2,35	3,45	2,93	2,37	2,29	4,61	3,67	3,50	2,86
4 CED	I DURABLE GOODS	3,16	2,69	1,83	1,46	3,78	2,95	2,35	2,37	0,33	5,28	4,07	2,33
5 CFN	I NONDURABLE GOODS	3,68	2,41	2,48	2,31	3,43	2,01	2,10	1,92	2,79	2,55	3,75	2,97
6 CES	I SERVICES	3,01	2,81	2,76	2,70	3,35	2,61	2,61	2,57	4,93	4,05	3,10	3,01
7													
8 INT	I GROSS PRIVATE DOMESTIC	3,54	5,63	5,07	4,87	5,95	6,78	4,52	3,05	13,97	6,41	2,34	3,67
9 INF	I FIXED INVESTMENT	4,68	4,74	5,58	5,78	6,31	5,86	5,26	4,32	12,50	7,22	2,74	3,92
10 INFN	I NONRESIDENTIAL	7,01	6,79	7,19	6,81	6,96	5,96	4,93	3,82	9,83	10,77	6,80	6,84
11 INFN	H RESIDENTIAL STRUCTURE	-2,39	-1,65	0,29	2,43	4,14	5,50	6,39	4,00	19,02	-0,78	-7,49	-2,66
12													
13 FEB	I EXPIMTS	10,30	6,13	3,66	1,23	-0,56	-1,24	-1,23	-0,57	2,67	4,68	9,45	6,68
14 INF	I IMPIMTS	0,43	0,76	-0,11	0,61	0,83	2,51	2,58	0,66	11,67	5,63	3,78	2,90
15													
16 GVPF	I GOVT PURCHASES OF GOOD	3,87	3,08	3,31	3,47	3,62	3,40	3,17	3,42	2,81	4,23	3,49	3,06
17 GVPF	I FEDERAL	3,33	1,73	2,57	2,62	2,89	2,58	2,34	2,49	5,04	5,33	2,70	2,52
18 GVPF	H NATIONAL DEFENSE	2,82	0,72	1,88	1,93	2,37	1,97	1,64	1,79	3,01	3,97	2,42	1,82
19 GVPF	H OTHER	4,28	3,50	3,77	3,83	3,79	3,62	3,53	3,88	11,87	7,83	3,18	3,06
20 GVPF	H STATE AND LOCAL	4,19	3,89	3,76	3,98	4,06	3,67	3,67	3,97	0,99	3,54	3,97	3,54

TABLE 4.00 PERSONAL CONSUMPTION IN CURRENT DOLLARS

TIME VAR LABEL	I T L M												
1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2	
PERSONAL CONSUMPTION EX	1174.0	1222.9	1251.0	1281.5	1309.8	1337.0	1365.0	1396.8	1426.7	1460.3	1491.2	1525.3	1557.8
2													
3 CEDS	178.6	179.4	186.3	189.0	193.2	197.0	200.4	204.5	207.6	211.2	214.5	217.7	220.4
4 CEDAS	84.5	83.0	85.6	88.0	90.0	91.8	93.1	94.9	96.0	97.1	98.2	99.3	99.9
5 CEDACS	47.2	44.6	46.8	48.3	49.6	50.8	51.7	52.6	53.2	53.7	54.4	54.8	55.2
6 CEDAPUS	27.3	28.1	28.2	28.9	29.5	29.9	30.2	30.9	31.2	31.6	32.0	32.5	32.8
7 CEDAVS	1.2	1.3	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	1.9
8 CEDAVS	8.8	7.0	9.2	9.3	9.3	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.1
9 CEDFS	64.3	70.9	72.8	74.5	76.2	77.6	79.1	80.9	82.3	84.1	85.5	87.1	88.5
10 CEDFS	24.8	25.4	25.9	26.4	27.0	27.6	28.2	28.8	29.4	30.0	30.7	31.4	32.0
11													
12 CENS	474.8	479.0	486.6	496.3	505.7	514.9	524.8	535.5	546.4	559.4	570.6	584.0	594.8
13 CENS	80.4	81.1	82.4	83.9	85.4	86.6	88.0	89.6	91.1	92.7	94.4	96.1	97.9
14 CENS	248.8	246.7	251.2	256.4	262.2	267.8	273.7	278.8	285.1	293.1	298.9	305.4	312.8
15 CENS	44.3	45.4	45.9	47.1	47.7	48.4	49.2	50.5	51.4	52.8	53.4	55.4	56.6
16 CENS	104.8	105.9	107.1	108.8	110.4	112.0	113.9	116.7	118.0	121.5	123.9	127.0	129.4
17													
18 CESS	541.1	564.5	580.0	596.2	610.9	625.1	639.9	654.7	672.6	689.8	706.2	723.7	740.6
19 CESS	181.9	187.3	192.1	197.3	202.5	207.7	213.2	219.1	224.8	230.4	236.2	242.6	248.6
20 CESS	79.2	86.0	87.3	89.3	90.9	92.5	94.2	96.5	98.4	100.4	102.5	105.1	107.1
21 CESTS	40.5	41.8	42.9	44.3	45.5	46.7	48.1	49.7	51.0	52.5	54.0	55.6	57.1
22 CESS	234.4	249.4	257.7	265.3	271.9	278.1	284.5	291.5	298.4	305.6	311.0	320.1	327.9

TABLE 4.00 PERSONAL CONSUMPTION IN CURRENT DOLLARS

LINE	VAR LABEL	I	T	M	1980.3	1980.8	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	PERSONAL CONSUMPTION EX	1592.3	1625.3	1659.1	1693.7	1733.3	1770.2	1809.0	1847.4	1885.1	1923.5	1961.7	1575.2	1714.1			
2																	
3	DURABLE GOODS	224.2	227.7	231.1	234.4	238.9	243.1	247.3	251.6	255.8	260.1	264.3	204.9	222.5	236.9		
4	AUTOS AND PARTS	101.2	102.8	104.2	105.4	107.2	109.2	111.2	113.1	114.6	116.6	118.6	90.7	96.6	100.4	106.5	
5	NEW AUTOS- FIRM + DD	55.4	56.7	57.5	58.3	59.2	60.4	61.6	63.0	64.1	65.1	66.1	50.1	53.5	56.4	58.8	
6	USED CARS + PARTS +	33.4	34.1	34.7	35.1	35.9	36.8	37.5	38.0	38.1	38.5	39.0	24.6	26.1	27.0	27.6	
7	RECREATIONAL VEHICLE	1.4	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.6	1.6	1.9	2.0	
8	TRUCKS	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.4	9.4	10.1	10.1	
9	FURNITURE AND HOUSEHOLD	90.3	91.5	92.6	94.2	96.2	97.5	99.1	100.7	101.1	101.7	102.1	76.9	83.2	89.3	95.2	
10	OTHER DURABLE GOODS	32.7	33.4	34.1	34.8	35.6	36.3	37.0	37.8	38.1	38.5	38.9	27.3	29.7	32.4	35.2	
11																	
12	INDURABLE GOODS	604.0	620.8	632.6	644.6	658.4	670.9	684.0	696.9	710.7	724.6	738.5	510.4	553.0	602.6	651.6	
13	CLOTHING AND SHOES	99.5	101.2	102.9	104.6	106.3	108.3	110.2	112.0	113.8	115.6	117.4	86.0	91.9	98.7	105.5	
14	FOOD AND BEVERAGES	319.6	326.2	332.2	338.8	346.5	353.5	360.3	367.4	374.6	381.8	389.0	265.1	289.0	316.0	342.8	
15	GASOLINE AND OIL	57.5	58.6	60.1	61.1	62.3	63.4	65.0	66.2	67.4	68.6	69.8	48.1	51.9	57.0	61.7	
16	OTHER NONDURABLE GOODS	132.4	134.8	137.4	140.0	143.3	145.7	148.6	151.2	153.8	156.4	159.0	111.3	120.2	130.9	141.6	
17																	
18	SERVICES	759.1	776.8	795.4	814.8	836.0	856.2	877.6	899.0	920.4	941.8	963.2	610.0	681.2	750.0	825.6	
19	HOUSEHOLD OPERATION	254.9	260.8	267.1	273.6	280.8	287.6	294.8	302.1	309.4	316.6	323.8	205.2	227.9	251.7	277.3	
20	TRANSPORTATION	109.3	111.5	114.0	116.3	119.0	121.6	124.5	127.4	130.3	133.2	136.1	91.7	99.4	108.3	117.7	
21	OTHER	58.7	60.3	61.9	63.4	65.3	67.0	68.7	70.4	72.1	73.8	75.5	46.2	51.8	57.9	64.4	
22																	
23																	
24																	

MAXIMUM DESCRIPTOR WIDTH PERMITTED IS LESS THAN ACTUAL WIDTH, TRUNCATION WILL OCCUR
ACTUAL = 29 PERMITTED = 25

TABLE 5.00 PERSONAL CONSUMPTION IN CONSTANT DOLLARS

LINE	VAR LABEL	I	E	N	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	PERSONAL CONSUMPTION EX	854.11	861.2	871.0	879.3	887.2	894.4	902.0	911.0	917.8	925.0	933.2	938.8	944.0	948.0	953.0	958.0
2																	
3	DURABLE GOODS-----	137.91	137.2	140.3	142.6	146.6	146.3	148.0	149.6	150.5	152.0	153.1	153.5	153.8	153.0	153.0	153.0
4	AUTOS AND PARTS-----	62.11	60.2	61.9	62.9	63.6	64.3	64.8	65.1	65.1	65.2	65.3	65.0	64.4	64.4	64.4	64.4
5	NEW AUTO- FURN + DOM	37.11	34.7	36.9	37.4	38.0	38.4	38.5	38.5	38.4	38.4	38.5	38.5	37.6	37.6	37.6	37.6
6	NEW AUTO- DOMESTIC---	26.31	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
7	SAMURDAY	11.71	11.0	11.3	11.4	11.5	11.6	11.6	11.7	11.7	11.7	11.8	11.8	11.8	11.8	11.8	11.8
8	USED CARS + PARTS +	17.21	17.5	17.0	18.0	18.1	18.2	18.4	18.4	18.4	18.5	18.5	18.5	18.5	18.5	18.5	18.5
9	RECREATIONAL VEHICLE	1.01	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
10	TRUCKS-----	6.91	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
11	FURNITURE AND HOUSEH	55.91	56.8	56.1	59.1	60.0	60.0	61.7	62.7	63.5	64.5	65.3	65.9	66.5	66.5	66.5	66.5
12	OTHER DURABLE GOODS---	19.81	20.1	20.4	20.6	20.9	21.2	21.5	21.7	22.0	22.3	22.5	22.7	22.9	22.9	22.9	22.9
13																	
14	NONDURABLE GOODS-----	330.01	330.1	332.4	334.9	337.7	340.2	343.2	347.3	350.1	353.1	356.2	358.5	360.4	360.4	360.4	360.4
15	CLOTHING AND SHOES---	68.01	65.9	66.7	67.5	68.3	69.0	69.7	70.5	71.2	71.8	72.5	73.1	73.6	73.6	73.6	73.6
16	FOOD AND BEVERAGES---	166.41	166.4	166.0	169.4	170.8	172.1	173.4	175.7	176.9	178.0	179.3	180.2	180.7	180.7	180.7	180.7
17	GASOLINE AND OIL---	25.61	25.4	25.5	25.4	25.5	25.6	25.7	25.8	25.9	26.1	26.3	26.4	26.6	26.6	26.6	26.6
18	OTHER NONDURABLE GOOD	72.01	71.8	72.2	72.5	73.0	73.6	74.4	75.3	76.1	77.2	78.1	78.8	79.5	79.5	79.5	79.5
19																	
20	SERVICES-----	386.31	393.9	398.3	401.9	405.0	407.9	410.8	414.2	417.2	420.7	423.9	426.0	429.0	429.0	429.0	429.0
21	RENTAL-----	140.31	142.0	143.7	145.2	146.7	147.9	149.2	150.6	151.7	153.1	154.3	155.4	156.4	156.4	156.4	156.4
22	RENTAL OPERATIONS---	54.61	57.7	57.7	57.9	58.2	58.5	58.7	59.1	59.4	59.9	60.3	60.7	61.1	61.1	61.1	61.1
23	INSURANCE-----	20.31	20.4	20.6	20.8	20.9	21.1	21.4	21.7	22.0	22.3	22.5	22.7	22.9	22.9	22.9	22.9
24	RENTAL-----	162.01	164.6	167.2	169.0	170.2	171.4	172.6	173.9	175.1	176.5	177.9	179.1	180.4	180.4	180.4	180.4

SPECIAL INH FORECAST: OCTOBER 1977

TABLE 5.00 PERSONAL CONSUMPTION IN CONSTANT DOLLARS

LINE VAR LABEL	I T E M	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1 CE	I PERSONAL CONSUMPTION EX	952.1	950.3	964.2	969.8	978.1	984.0	989.8	995.4	859.2	890.7	922.0	948.3	974.0
2	I DURABLE GOODS----	155.0	156.0	154.7	157.3	158.8	159.4	160.9	161.8	130.1	145.4	151.1	154.6	158.2
3 CED	I AUTOS AND PARTS-----	64.4	64.7	64.6	64.4	64.6	65.0	65.1	65.2	61.7	63.9	65.2	64.4	64.6
4 CEDA	I NEW AUTO- FORD + DODG	37.7	37.9	37.8	37.7	37.7	38.0	38.1	38.3	36.1	37.7	38.5	37.9	37.8
5 CEDAVH	I NEW AUTO- DOMESTIC----	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.6	28.3	28.3	28.3	28.3
6 CEDAVND	I NEW AUTO- FOREIGN-----	11.8	11.9	11.9	12.0	12.0	12.1	12.2	12.3	11.3	11.5	11.7	11.8	12.0
7 SAWHNDV	I TRUCKS-----	18.6	18.8	18.9	18.9	19.1	19.4	19.5	19.5	17.5	18.0	18.4	18.4	19.1
8 CEDAPVU	I USED CARS + PARTS +	1.3	1.3	1.3	1.2	1.3	1.3	1.2	1.2	1.1	1.2	1.3	1.3	1.3
9 CEDAVR	I MECHANICAL VEHICLE	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
10 CEDAVT	I TRUCKS-----	67.5	68.1	68.7	69.3	70.4	71.0	71.6	72.8	56.8	60.4	64.0	67.0	69.0
11 CEDP	I FURNITURE AND HOUSEHOLD	23.3	23.5	23.5	23.6	23.6	24.0	24.1	24.2	19.9	21.1	22.1	23.0	23.7
12 CERD	I OTHER DURABLE GOODS----	363.7	365.8	366.1	370.2	373.3	375.2	377.2	379.0	330.6	339.0	351.7	362.1	371.7
13 CEM	I NONDURABLE GOODS-----	74.1	74.8	75.3	75.8	76.2	76.9	77.3	77.8	66.0	68.6	71.5	73.9	76.1
14 CEMC	I CLOTHING AND SHOES----	182.1	182.6	183.5	184.1	185.5	185.9	186.7	187.2	166.7	171.8	177.5	181.4	184.8
15 CEMF	I FOOD AND BEVERAGES----	26.8	26.9	27.1	27.2	27.4	27.5	27.6	27.8	25.6	25.5	26.0	26.7	27.3
16 CEMG	I GASOLINE AND OIL-----	80.7	81.5	82.3	83.0	84.2	84.9	85.6	86.2	72.2	73.4	76.7	80.1	83.6
17 CEMH	I OTHER NONDURABLE GOODS	435.4	436.4	439.4	442.3	446.0	448.8	451.7	454.6	390.6	406.4	419.0	431.6	444.1
18 CES	I SERVICES-----	157.9	158.9	160.0	161.0	162.5	163.5	164.6	165.7	141.3	147.2	152.4	157.1	161.7
19 CESH	I HOUSING-----	61.6	62.1	62.5	63.0	63.5	64.0	64.4	64.9	56.5	58.3	59.7	61.4	63.2
20 CESS	I HOUSEHOLD OPERATION----	32.2	32.4	32.6	32.8	33.1	33.3	33.5	33.6	29.4	30.1	31.0	32.0	32.9
21 CEST	I TRANSPORTATION-----	181.7	183.0	184.3	185.5	186.9	188.1	189.3	190.4	163.4	170.8	175.9	181.1	186.2
22 CEST	I OTHER-----													

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TIME W H A R T I O N Q U A R T E R L Y M O D E L M A H K 4.6
S P E C I A L I N N F O R E C A S T ; O C T O B E R 1 9 7 7

TABLE 6.10 GROSS PRIVATE DOMESTIC INVESTMENT IN CURRENT DOLLARS

LINE	VAR LABEL	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	GROSS PRIVATE DOMESTIC	294.91	301.1	318.2	327.0	335.6	342.0	348.6	354.4	363.7	372.0	381.6	393.4	403.5
2														
3	FIXED INVESTMENT	273.21	283.9	295.9	307.0	317.1	323.3	330.1	337.3	344.7	353.5	362.6	374.1	384.3
4	INDUSTRIAL	102.41	109.8	116.0	120.2	126.5	129.1	132.0	135.6	139.1	142.7	146.4	150.2	154.1
5	EQUIPMENT	121.41	126.8	132.2	140.2	147.4	153.1	158.9	163.9	168.5	174.0	179.1	186.6	193.1
6	STRUCTURES	61.01	63.0	65.2	66.9	69.2	71.1	73.1	74.8	76.5	78.6	81.0	83.6	85.9
7	RESIDENTIAL	70.81	74.1	77.8	100.7	100.6	94.2	98.1	98.7	99.6	100.8	101.9	103.4	105.2
8														
9	FIXED INVESTMENT BY SECTOR													
10	AGRICULTURE	14.41	14.5	14.6	14.8	14.9	15.2	15.6	16.0	16.3	16.6	16.8	17.2	17.6
11	MINING	4.51	4.6	4.6	4.8	5.0	5.3	5.5	5.7	5.8	6.0	6.3	6.4	6.9
12	MANUFACTURING	59.51	60.9	63.4	66.4	68.7	70.8	72.6	75.0	77.2	79.7	82.0	85.1	87.9
13	MANUFACTURING DURABLES	27.31	28.0	29.7	31.4	32.8	34.0	35.2	36.4	37.6	38.9	40.1	41.8	43.3
14	MANUFACTURING NONDURABLES	32.21	33.0	33.7	35.0	35.9	36.8	37.7	38.7	39.6	40.8	41.9	43.3	44.6
15	REGULATING	47.61	50.1	52.2	54.9	58.4	61.8	64.1	65.7	67.6	70.0	72.6	76.1	79.4
16	TRANSPORTATION	7.01	7.0	7.2	7.6	8.1	8.6	9.2	9.9	10.6	11.3	12.0	12.8	13.5
17	COMMUNICATIONS	15.31	16.7	18.1	19.5	20.8	21.9	22.9	23.9	24.7	25.5	26.1	26.8	27.2
18	UTILITIES	25.31	26.4	27.0	27.7	29.9	30.8	32.0	33.9	32.3	33.2	34.5	36.5	38.7
19	COMMERCE	22.71	24.1	25.2	26.6	27.9	29.3	30.9	32.0	33.0	34.1	35.5	36.6	37.8
20	WHA SURVEY-RIA CONCEPT	33.71	35.6	37.7	39.7	41.2	42.2	43.1	44.2	45.2	46.2	47.5	48.8	49.8
21														
22	CHG IN BUSINESS INVENT	21.71	17.2	22.3	19.2	18.5	18.7	18.6	17.1	19.1	18.5	19.0	19.3	19.2
23	FARM	-0.71	2.6	1.8	-1.1	-0.7	1.8	1.8	0.0	1.4	1.4	1.4	1.4	1.5
24	NONFARM	22.41	14.4	20.5	20.3	19.2	16.9	16.7	17.1	17.7	17.1	17.5	17.9	17.8

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL UNN FORECAST; OCTOBER 1977

TABLE 6.00 GROSS PRIVATE DOMESTIC INVESTMENT IN CURRENT DOLLARS

LINE	VAN LAREL	I I I I	1980,3	1980,4	1981,1	1981,2	1981,3	1981,4	1982,1	1977	1978	1979	1980	1981
1	GROSS PRIVATE DOMESTIC	412,9	425,4	438,1	450,3	464,3	470,1	474,5	506,51	296,5	318,3	367,9	408,0	458,2
2														
3	FIXED INVESTMENT-----	394,5	405,5	417,9	430,6	444,3	458,3	473,0	486,21	277,7	319,6	349,5	389,5	437,8
4	NONRESIDENTIAL-----	289,4	297,4	307,8	318,0	328,5	338,8	349,1	358,21	186,8	220,0	249,3	283,7	323,3
5	RESIDENTIAL-----	199,4	206,0	213,4	220,5	227,8	235,0	242,3	248,71	125,0	149,9	171,5	196,3	224,2
6	STRUCTURES-----	88,7	91,4	94,4	97,5	100,7	103,8	106,8	109,51	61,8	70,1	77,7	87,4	99,1
7	EQUIPMENT-----	106,4	107,9	110,0	112,6	115,8	119,5	123,8	128,01	90,9	99,6	100,3	105,0	114,5
8														
9	FIXED INVESTMENT BY SECTOR													
10	AGRICULTURE-----	17,9	18,3	18,7	19,0	19,4	19,7	20,0	20,31	14,4	15,1	16,4	17,8	19,2
11	MINEING-----	6,8	7,1	7,4	7,5	7,7	7,9	8,1	8,21	4,5	5,2	5,9	6,7	7,6
12	MANUFACTURING-----	76,6	93,5	96,7	99,7	102,9	105,9	109,3	112,31	60,1	69,7	78,5	89,3	101,3
13	TRANSPORTATION-----	44,7	46,2	48,0	49,7	51,5	53,3	55,2	57,01	27,8	33,4	38,2	44,0	50,6
14	UTILITIES-----	45,4	47,3	48,7	50,0	51,8	52,7	54,1	55,31	32,3	36,3	40,2	45,3	50,7
15	REGULATED-----	82,5	85,8	89,6	93,5	97,6	101,8	105,9	109,61	49,2	59,8	64,0	71,0	80,6
16	UNREGULATED-----	19,1	19,7	15,4	16,0	16,5	16,8	17,1	17,31	7,1	8,4	10,9	13,8	16,2
17	COMMERCE-----	27,6	27,8	28,3	28,7	29,1	29,6	30,0	30,41	16,1	21,4	25,1	27,4	28,9
18	GUARDIAN-----	40,9	43,2	45,9	48,8	52,0	55,4	58,4	61,91	26,0	30,1	33,0	39,9	50,5
19	COMMERCIAL-----	39,2	40,6	42,2	43,7	45,2	46,5	47,8	48,91	23,7	28,7	31,7	38,5	44,4
20	RESEARCH AND DEVELOPMENT-----	50,9	52,1	53,4	54,4	55,7	56,9	58,1	59,41	34,9	41,6	45,8	50,0	55,1
21														
22	INVESTMENT IN NONRESIDENTIAL-----	14,5	20,1	20,2	19,7	19,9	21,8	21,5	20,31	18,6	18,7	18,4	19,3	20,4
23	INVESTMENT IN RESIDENTIAL-----	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,51	0,9	0,5	1,1	1,5	1,5
24	INVESTMENT IN OTHER-----	14,0	18,6	18,7	18,2	18,4	20,3	20,0	18,81	17,9	18,1	17,3	17,8	18,9

SPECIAL ONR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T E M	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1 IA1MGS	H MINING, FIRST ANTICIPAT	4.41	4.5	4.4	4.6	4.8	5.1	5.3	5.5	5.7	5.9	6.1	6.4	6.6
2 IA2MGS	H MINING, SECOND ANTICIPAT	4.21	4.5	4.5	4.7	4.9	5.2	5.4	5.6	5.9	6.1	6.3	6.4	6.6
3 IA1MFS	H MANUF. DURABLES, FIRST	26.41	28.0	29.4	31.5	32.9	34.1	35.3	36.5	37.7	39.0	40.3	42.0	43.5
4 IA2MFS	H MANUF. DURABLES, SECOND	26.61	28.3	29.7	31.7	33.2	34.5	35.6	36.8	38.0	39.4	40.7	42.4	44.0
5 IA1MFS	H MANUF. NONDURABLES, FIRST	32.21	33.4	34.6	35.4	36.3	37.3	38.1	39.1	40.2	41.4	42.4	43.9	45.3
6 IA2MFS	H MANUF. NONDURABLES, SEC	31.11	33.5	34.6	35.4	36.3	37.2	38.1	39.1	40.1	41.2	42.3	43.8	45.2
7 IA1RGT	H TRANSPORTATION, FIRST A	6.61	6.8	6.9	7.4	7.8	8.3	8.9	9.5	10.2	11.0	11.7	12.5	13.1
8 IA2RGT	H TRANSPORTATION, SECOND	6.61	6.6	7.0	7.2	7.7	8.1	8.7	9.3	10.0	10.8	11.6	12.4	13.2
9 IA1RGU	H UTILITIES, FIRST ANTICI	25.61	26.7	27.2	27.9	30.2	31.2	32.4	32.2	32.5	33.5	34.9	37.0	39.3
10 IA2RGU	H UTILITIES, SECOND ANTIC	26.21	25.7	27.5	27.7	30.3	31.1	32.0	32.9	33.4	34.6	36.0	38.2	40.6
11 IA1CM+48	H COMMERCIAL+COMMUN, FRS	39.21	39.1	39.8	41.6	43.3	45.1	47.3	48.8	50.2	51.6	53.5	55.1	57.0
12 IA2CM+48	H COMMERCIAL+COMMUN, SECO	37.91	38.1	38.7	40.0	41.2	42.0	45.1	46.3	47.3	48.4	50.2	51.2	52.9

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SPECIAL ONR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T E M	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1 IA1MGS	H MINING, FIRST ANTICIPAT	6.9	7.2	7.6	7.8	8.1	8.3	8.5	8.71	4.4	4.9	5.0	6.0	7.9
2 IA2MGS	H MINING, SECOND ANTICIPAT	6.8	7.1	7.4	7.7	7.9	8.2	8.4	8.51	4.4	5.1	6.0	6.7	7.8
3 IA1MFS	H MANUF. DURABLES, FIRST	44.9	46.5	48.3	50.0	51.9	53.7	55.7	57.51	27.4	33.5	38.4	44.2	51.0
4 IA2MFS	H MANUF. DURABLES, SECOND	45.5	47.0	48.7	50.5	52.4	54.2	56.3	58.21	27.6	33.7	38.8	44.7	51.5
5 IA1MFS	H MANUF. NONDURABLES, FRS	46.6	48.0	49.5	50.9	52.3	53.7	55.2	56.51	32.7	36.8	40.8	46.0	51.6
6 IA2MFS	H MANUF. NONDURABLES, SEC	46.5	47.9	49.3	50.7	52.1	53.4	54.9	56.31	32.7	36.7	40.7	45.8	51.4
7 IA1RGT	H TRANSPORTATION, FIRST A	13.7	14.4	15.1	15.7	16.4	16.5	16.8	17.01	6.8	8.1	10.6	13.4	15.9
8 IA2RGT	H TRANSPORTATION, SECOND	13.9	14.5	15.2	16.0	16.6	17.0	17.4	17.71	6.6	7.9	10.4	13.5	16.2
9 IA1RGU	H UTILITIES, FIRST ANTICI	41.6	44.0	46.9	50.0	53.4	57.0	60.6	63.91	26.0	30.4	33.3	40.5	51.8
10 IA2RGU	H UTILITIES, SECOND ANTIC	43.1	45.5	48.5	51.5	54.9	58.4	62.0	65.21	26.0	30.5	34.2	41.9	53.3
11 IA1CM+48	H COMMERCIAL+COMMUN, FRS	58.9	61.1	63.5	65.9	68.2	70.4	72.6	74.61	38.8	44.3	51.0	58.0	67.0
12 IA2CM+48	H COMMERCIAL+COMMUN, SECO	54.8	56.9	59.6	62.3	65.0	67.3	69.7	71.71	38.0	42.3	48.1	53.9	63.5

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T H F W H A R T U M Q U A R T E R L Y M O D E L M A N K 4.6
SPECIAL INR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T E M	TABLE 7.00 GROSS PRIVATE DOMESTIC INVESTMENT IN CONSTANT DOLLARS													
		1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2	
1 INT	I GROSS PRIVATE DOMESTIC	197.21	198.7	206.0	206.9	209.3	210.8	212.0	211.6	214.0	215.4	217.8	219.5	221.3	
2	I														
3 INF	I FIXED INVESTMENT	184.01	187.2	192.1	195.5	198.4	199.3	200.7	201.5	202.4	204.6	206.8	208.6	210.4	
4 INFN	I I NONRESIDENTIAL	126.41	129.2	133.1	136.6	140.9	143.8	146.9	148.6	150.4	152.6	155.2	157.4	159.7	
5 IRFN	I I EQUIPMENT	88.11	90.5	93.6	96.7	100.1	102.5	104.9	106.3	107.7	109.4	111.3	112.8	114.4	
6 IRFIS	I I STRUCTURES	38.21	38.7	39.6	40.0	40.8	41.3	42.0	42.5	42.7	43.3	44.0	44.6	45.2	
7 INFN	I I RESIDENTIAL	57.61	58.0	59.0	59.9	60.8	61.5	62.0	62.5	62.8	63.3	63.9	64.6	65.2	
8 HSPR	I I HOUSING STARTS, TOTAL	1.7051	2.034	2.031	1.971	1.904	1.828	1.805	1.793	1.786	1.781	1.775	1.762	1.756	
9 HSPRSM	I I HOUSING STARTS, MUL	0.4861	0.570	0.610	0.610	0.591	0.575	0.575	0.583	0.585	0.587	0.591	0.592	0.593	
10 HSPRSI	I I HOUSING STARTS, SIN	1.4191	1.464	1.420	1.361	1.313	1.253	1.230	1.210	1.201	1.195	1.182	1.170	1.162	
11	I														
12	I														
13 IAAG	I A AGRICULTURE	19.01	9.9	9.8	9.7	9.7	9.8	9.9	10.0	10.0	10.0	10.0	10.0	10.1	
14 IANG	I A MINING	3.11	3.1	3.1	3.2	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.7	3.8	
15 IAMP	I A MANUFACTURING	41.21	41.5	42.9	43.8	44.7	45.4	46.1	46.7	47.4	48.1	48.8	49.5	50.3	
16 IAMPD	I A MANUFACTURING: DURABLE	18.91	19.0	19.9	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.9	24.3	24.7	
17 IAMPN	I A MANUFACTURING: NONDURABLE	22.31	22.4	22.9	23.1	23.3	23.6	23.8	24.1	24.3	24.6	24.9	25.2	25.5	
18 IARG	I A REGULATED	32.91	34.1	35.1	36.2	38.2	39.4	40.6	40.9	41.5	42.3	43.3	44.3	45.4	
19 IARGT	I A TRANSPORTATION	4.81	4.8	4.8	5.0	5.3	5.5	5.8	6.1	6.5	6.8	7.1	7.4	7.7	
20 IARGCAR	I A COMMUNICATION	10.61	11.3	12.2	12.9	13.5	14.1	14.5	14.9	15.2	15.4	15.5	15.6	15.6	
21 IARGUAG	I A UTILITIES	17.51	18.0	18.1	18.3	19.4	19.8	20.3	19.9	19.8	20.1	20.6	21.3	22.2	
22 IACH	I A COMMERCIAL	15.71	16.4	16.9	17.5	18.2	18.8	19.6	19.4	20.3	20.6	21.2	21.3	21.6	
23 IRA	I A REA SURVEY-NIA CONCEPT	23.41	24.2	25.4	26.2	26.8	27.1	27.3	27.5	27.7	27.9	28.3	28.4	28.5	
24	I														
25 IBIT	I CHG IN BUSINESS INVENT	13.21	11.4	13.8	11.4	11.0	11.5	11.3	10.1	11.3	10.8	10.9	10.9	10.7	
26 IBIF	I F FARM	-0.51	1.8	1.1	-1.0	-0.7	1.1	1.1	-0.2	0.8	0.8	0.8	0.8	0.8	
27 IBIN	I I MINING	13.61	9.6	12.7	12.4	11.7	10.4	10.2	10.3	10.5	10.8	10.1	10.1	9.9	
28 IBINMF	I I MANUFACTURING	6.41	5.3	7.1	6.9	5.9	5.3	5.7	6.0	6.0	5.8	5.9	5.8	5.9	
29 IBITDVA	I CHG IN DEALERS' AU	0.31	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	
30 IBINOT	I NONAUTO-NONMFG	6.91	6.2	5.4	5.2	5.5	4.8	4.3	4.0	4.2	4.0	4.0	4.1	3.8	

SPECIAL UNR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T I M	7.10 INVESTMENT ANTICIPATIONS IN CONSTANT DOLLARS														1980.2			
		1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2	1980.3	1980.4	1980.5	1980.6	1980.7
1 IAIMG	B MINING, FIRST ANTICIPAT	5.11	5.1	5.0	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4
2 IAIMG	B MINING, SECOND ANTICIPAT	2.91	3.1	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5
3 IAIMF	B MANUF. UNHABLES, FIRST	18.31	19.0	20.0	20.8	21.4	21.9	22.4	22.7	23.2	23.6	24.0	24.5	24.9	25.3	25.7	26.1	26.5	26.9
4 IAIMF	B MANUF. UNHABLES, SECOND	16.51	17.3	18.0	18.8	19.4	19.9	20.4	20.7	21.2	21.6	22.0	22.5	22.9	23.3	23.7	24.1	24.5	24.9
5 IAIMF	B MANUF. UNHABLES, FIRST	22.31	22.7	23.2	23.4	23.6	23.9	24.1	24.4	24.7	25.0	25.3	25.6	25.9	26.2	26.5	26.8	27.1	27.4
6 IAIMF	B MANUF. UNHABLES, SECOND	21.61	22.0	22.5	22.7	23.0	23.3	23.6	23.9	24.1	24.4	24.7	25.0	25.3	25.6	25.9	26.2	26.5	26.8
7 IAIMG	B TRANSPORTATION, FIRST A	4.61	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.2
8 IAIMG	B TRANSPORTATION, SECOND	4.61	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	5.0	5.0
9 IAIMG	B UTILITIES, FIRST ANTICIPAT	17.41	18.2	18.3	18.4	19.7	20.0	20.5	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8
10 IAIMG	B UTILITIES, SECOND ANTICIPAT	18.11	17.5	18.5	18.3	19.7	20.0	20.8	20.5	21.2	21.6	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.8
11 IAIMG	B COMMERCIAL+COMMON, FIRST	27.11	26.6	26.8	27.4	28.2	29.0	30.0	30.4	30.8	31.2	31.6	32.0	32.4	32.8	33.2	33.6	34.0	34.4
12 IAIMG	B COMMERCIAL+COMMON, SECOND	26.21	26.0	26.0	26.4	26.8	27.5	28.6	28.8	29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	31.4	31.7

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SPECIAL UNR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T I M	7.10 INVESTMENT ANTICIPATIONS IN CONSTANT DOLLARS														1981			
		1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1982.3	1982.4	1983.1	1983.2	1983.3	1983.4	1984.1	1984.2	1984.3	1984.4
1 IAIMG	B MINING, FIRST ANTICIPAT	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9
2 IAIMG	B MINING, SECOND ANTICIPAT	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8
3 IAIMF	B MANUF. UNHABLES, FIRST	25.3	25.8	26.3	26.9	27.4	27.9	28.4	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9
4 IAIMF	B MANUF. UNHABLES, SECOND	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1
5 IAIMF	B MANUF. UNHABLES, FIRST	26.3	26.7	27.0	27.4	27.8	28.2	28.6	29.0	29.4	29.8	30.2	30.6	31.0	31.4	31.8	32.2	32.6	33.0
6 IAIMF	B MANUF. UNHABLES, SECOND	26.2	26.6	26.9	27.2	27.5	27.8	28.1	28.4	28.7	29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	31.4
7 IAIMG	B TRANSPORTATION, FIRST A	7.7	8.0	8.2	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9	9.0	9.0	9.1	9.1	9.2	9.2
8 IAIMG	B TRANSPORTATION, SECOND	7.6	8.0	8.3	8.6	8.8	8.9	8.9	9.0	9.1	9.1	9.2	9.2	9.3	9.3	9.4	9.4	9.5	9.5
9 IAIMG	B UTILITIES, FIRST ANTICIPAT	23.4	24.4	25.4	26.4	27.4	28.4	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4
10 IAIMG	B UTILITIES, SECOND ANTICIPAT	24.3	25.3	26.4	27.4	28.4	29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4
11 IAIMG	B COMMERCIAL+COMMON, FIRST	33.2	33.9	34.6	35.4	36.0	36.6	37.1	37.5	37.9	38.3	38.7	39.1	39.5	39.9	40.3	40.7	41.1	41.5
12 IAIMG	B COMMERCIAL+COMMON, SECOND	30.9	31.6	32.5	33.5	34.3	35.0	35.6	36.0	36.4	36.8	37.2	37.6	38.0	38.4	38.8	39.2	39.6	40.0

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THE WHARTON QUARTERLY MODEL MARK 4.0
SPECIAL QM FINCAST, OCTOBER 1977

LINE VAR LABEL	ITEM	7.20 INVENTORY STOCKS AND DEFATIONS											
		CURRENT DOLLARS											
1		1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1
2	3 KIBIDS	422.51	430.9	442.4	453.1	461.9	473.1	485.2	496.6	507.4	519.0	530.5	544.1
3	4 KIBIDS	213.71	218.8	224.7	230.5	235.9	241.1	246.5	252.0	257.6	263.2	268.8	274.4
4	5 KIBIDS	136.41	136.5	136.4	140.1	143.4	147.1	150.6	153.9	156.8	160.5	164.7	168.0
5	6 KIBIDS	70.31	81.9	85.0	88.3	91.7	95.2	98.8	102.4	106.2	110.6	114.8	119.3
6	7 KIBIDS												
7	8 KIBIDS												
8	9 KIBIDS												
9	10 KIBIDS												
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37	38 KIBIDS												
38	39 KIBIDS												
39	40 KIBIDS												
40	41 KIBIDS												
41	42 KIBIDS												

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THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL QMR FORECAST, OCTOBER 1977

TABLE 7.20 INVENTORY STOCKS AND DEFLATORS

LINE VAR LABEL	I L M	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
		CURRENT DOLLARS												
1														
2	1	MANUFACTURING	568.9	563.3	596.9	608.1	620.9	634.6	648.1	659.6	427.9	468.3	513.4	561.5
3	2	MANUFACTURING	285.8	291.6	297.5	303.4	309.4	315.4	321.4	327.2	217.0	238.5	260.4	281.0
4	3	DURABLES	176.6	180.6	184.0	187.5	191.5	195.2	198.6	201.8	135.6	145.3	159.0	174.5
5	4	NONDURABLES	178.5	133.2	118.0	142.8	147.8	152.9	158.2	163.4	81.0	93.5	104.5	145.4
6	5	WORK IN PROGRESS												
7	6	STAGE OF PROCESS												
8	7	INVENTORY STOCKS												
9	8	INVENTORY STOCKS												
10	9	INVENTORY STOCKS												
11	10	FINISHED GOODS	41.8	43.0	44.2	45.4	46.7	48.1	49.4	50.8	29.7	32.5	36.6	41.2
12	11	MATERIALS & SUPPLIES	52.2	53.6	55.1	56.5	58.1	59.6	61.2	62.8	37.4	41.0	45.9	51.5
13	12	WORK IN PROGRESS	58.3	59.3	60.2	61.1	61.8	62.5	63.0	63.3	44.3	48.6	53.1	57.7
14	13	RATIO MAT & SUP TO WIP	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.7
15	14	NONDURABLES												
16	15	FINISHED GOODS	37.2	38.0	38.9	39.9	40.8	41.8	42.9	44.0	27.5	30.7	33.3	36.7
17	16	MATERIALS & SUPPLIES	39.8	40.9	42.1	43.2	44.4	45.5	46.7	47.9	27.4	31.0	34.8	39.2
18	17	WORK IN PROGRESS	14.6	15.0	15.5	16.0	16.4	16.9	17.4	17.9	9.7	11.1	12.6	14.8
19	18													
20	19													
21	20													
22	21	INVENTORIES	142.5	145.2	147.9	150.4	153.0	155.8	158.4	161.0	307.6	319.5	330.4	341.2
23	22	MANUFACTURING	43.2	43.4	43.6	43.8	44.0	44.2	44.4	44.6	41.5	41.7	42.3	43.1
24	23	MANUFACTURING	299.3	301.8	304.3	306.6	309.0	311.6	314.0	316.4	266.0	277.7	288.1	298.1
25	24	DURABLES	149.6	151.1	152.5	154.0	155.5	157.0	158.4	159.7	131.0	137.2	143.0	148.9
26	25	NONDURABLES	43.2	44.0	44.8	45.6	46.3	47.1	47.8	48.4	83.8	86.3	89.6	92.8
27	26	WORK IN PROGRESS	56.4	57.1	57.7	58.4	59.1	59.9	60.6	61.3	47.2	51.0	53.5	56.1
28	27	RATIO MAT & SUP TO WIP	122.8	123.5	124.1	124.7	125.3	126.0	126.7	127.3	111.8	115.9	119.5	122.5
29	28	FINISHED GOODS	67.2	67.7	68.2	68.5	68.9	69.4	69.9	70.3	59.1	62.2	64.9	67.0
30	29	MATERIALS & SUPPLIES	57.7	58.1	58.6	58.9	59.2	59.6	60.1	60.4	50.3	53.2	55.5	57.5
31	30	WORK IN PROGRESS	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9	8.8	9.0	9.3	9.5
32	31	STAGE OF PROCESS	55.5	55.7	55.9	56.1	56.4	56.6	56.8	57.0	52.3	53.7	54.6	55.4
33	32	INVENTORY STOCKS	26.9	27.3	27.6	27.9	28.3	28.6	29.0	29.3	23.7	24.6	25.6	26.7
34	33													
35	34													
36	35	INVENTORY DEFLATORS	190.1	193.3	196.2	198.3	200.9	203.7	206.4	208.5	160.8	168.6	178.2	189.0
37	36	MANUFACTURING	184.5	192.2	194.2	196.2	198.8	201.1	203.1	205.0	161.9	168.8	177.5	188.0
38	37	DURABLES	227.9	233.8	239.0	244.4	249.8	255.2	261.0	266.4	171.6	183.3	202.7	225.0
39	38	NONDURABLES	163.4	166.0	168.5	170.6	173.0	175.3	177.6	179.7	132.9	141.5	151.4	162.0
40	39	WORK IN PROGRESS	162.4	164.7	167.1	169.5	171.8	174.1	176.7	179.2	136.7	142.6	150.8	161.0
41	40	RATIO MAT & SUP TO WIP												

A PRODUCT OF WHARTON FFA., 4025 CHESTNUT ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL INR FORECAST: OCTOBER 1977

TABLE 7-30 ORDERS AND SHIPMENTS
LINE VAR LABEL YEAR 1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2

CURRENT DOLLARS												
1												
2												
3												
4	ORDERS											
5	ORDERS											
6	ORDERS											
7	ORDERS											
8	ORDERS											
9	ORDERS											
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22	ORDERS											
23	ORDERS											
24	ORDERS											

A PRODUCT OF WHARTON LPA., 4025 CHESTNUT ST, PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE MANTON QUARTERLY MODEL NAME 4.6
SPECIAL ORDER FORECAST, OCTOBER 1977

LINE	VAR LABEL	FILE	1969.3	1970.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1		CURRENT DOLLARS													
2		NEW ORDERS NET													
3		MANUFACTURING													
4	ORDERS		1009.7	1059.2	1708.0	1756.2	1808.6	1863.3	1910.1	1962.0	11257.4	1283.0	1420.7	1589.9	1784.0
5	ORDERS		1012.8	1067.6	1803.8	1811.7	1853.7	1890.4	1927.5	1962.2	21703.5	177.9	1876.9	1997.0	1136.7
6	ORDERS		871.5	904.1	917.3	947.6	1001.6	1016.1	1070.2	1101.7	590.2	656.5	786.9	857.0	985.6
7	ORDERS		55.6	56.5	57.6	58.6	59.9	61.0	62.1	63.4	42.6	46.7	50.8	54.0	54.3
8	ORDERS		109.2	120.1	130.6	140.2	149.9	161.5	172.0	181.6	216.1	240.7	268.9	305.1	345.0
9	ORDERS		42.1	43.6	44.2	44.8	45.2	47.5	48.1	48.9	33.4	38.2	44.3	42.2	45.8
10	ORDERS		267.1	276.5	286.4	295.4	304.7	314.0	323.9	332.7	182.8	207.5	228.6	263.0	300.2
11	ORDERS		506.7	527.4	544.1	568.7	591.8	613.6	636.1	656.7	331.4	369.0	427.3	496.9	580.8
12	ORDERS		885.9	896.7	912.4	937.5	965.1	997.8	1015.5	1035.0	630.5	680.3	759.5	853.2	950.7
13		SHIPMENTS													
14		MANUFACTURING													
15	ORDERS		1002.9	1001.0	1967.1	2031.0	2100.0	2167.2	2239.2	2303.6	11316.9	1421.3	1595.5	1815.7	2066.3
16	ORDERS		978.0	1015.5	1056.0	1095.1	1137.2	1180.6	1225.7	1267.6	685.2	742.5	836.7	961.4	1117.2
17	ORDERS		141.3	143.5	146.5	149.6	152.1	154.3	157.4	160.5	113.3	121.8	129.9	140.0	150.6
18	ORDERS		836.6	871.9	909.6	945.5	985.2	1026.3	1068.4	1107.1	571.9	621.1	704.7	821.4	966.6
19	ORDERS		864.9	885.6	911.1	935.9	962.7	986.6	1013.5	1036.0	631.7	678.8	758.8	852.3	949.1
20		FILLED ORDERS													
21		MANUFACTURING													
22	ORDERS		207.7	295.1	301.6	306.0	311.0	313.5	313.9	312.7	185.2	211.6	248.6	281.4	308.2
23	ORDERS		208.7	296.7	303.7	309.2	313.3	315.8	316.2	314.9	177.7	206.2	246.0	284.1	310.5
24	ORDERS		9.0	10.1	10.4	10.8	11.4	11.7	11.7	11.6	7.8	7.9	9.0	9.7	11.1

A PRODUCT OF MANTON E&F, 4025 CHESTNUT ST, PHILA, PA 19104, WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE WHAPTON QUARTERLY MODEL MANA 0.6
SPECIAL UNR FORECAST, OCTOBER 1977

LINE		VAR LABEL	ITEM		TABLE 0.00 EXPORTS & IMPORTS IN CURRENT DOLLARS												
					1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	THBS																
2	TRGS																
3	TRGS																
4																	
5																	
6	TEBS																
7																	
8	TEBTEGDS																
9	TEBTEGDS																
10	TEBTEGDS+13																
11	TEBTEGDS+43																
12	TEBTEGDS																
13	TEBTEGDS																
14	TEBTEGDS																
15	TEBTEGDS																
16	TEBTEGDS																
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45	TEBTEGDS																
46	TEBTEGDS																
47	TEBTEGDS																
48	TEBTEGDS																

THE MARTIN QUARTERLY MODEL MARK 4.6
SPECIAL OMM FORECAST: OCTOBER 1977

LINE	VAR LABEL	I T L M	TABLE 0.00 EXPORTS & IMPORTS IN CURRENT DOLLARS												1977	1978	1979	1980	1981
			1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1982.3	1982.4	1982.5	1982.6					
1	THNS	I NET EXPORTS	13.4	17.5	21.2	22.2	21.9	20.2	18.6	18.4	-10.5	-13.6	-4.7	10.4	21.4				
2	THCG3	I NET EXPTS OF GOODS	-9.6	-5.6	-2.1	-1.1	-1.4	-3.1	-4.7	-4.0	-29.5	-12.4	-26.1	-12.5	-1.9				
3	THNS	I TOTAL EXPORTS, NIA	280.8	290.0	298.0	303.6	308.2	312.5	317.1	321.0	178.9	201.0	234.7	274.9	305.6				
4	THNS	I MERCHANDISE EXPOR	204.9	212.6	219.3	223.9	227.2	230.3	233.8	237.4	122.9	119.9	166.6	199.8	225.2				
5	THNS	I MERCHANDISE EXPT	202.4	210.1	216.8	221.4	224.7	227.8	231.3	234.9	120.5	117.4	164.1	197.3	222.7				
6	THNS	I FUND & REVENUE	41.6	43.1	44.5	45.5	46.2	46.8	47.5	48.0	16.1	19.4	29.2	39.9	45.8				
7	THNS	I FUEL CRUDE M	25.9	27.0	27.8	28.4	28.9	29.2	29.3	29.4	16.2	17.2	19.6	25.1	28.6				
8	THNS	I FUELS	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	4.0	6.0	6.9	7.1	7.1				
9	THNS	I MANUFACTURED GO	127.8	132.9	137.3	140.8	142.6	143.7	147.4	150.4	83.7	94.5	108.4	125.2	141.2				
10	THNS	I AUTOS	16.1	16.4	16.7	17.0	17.3	17.6	17.9	18.2	12.4	13.5	14.7	15.9	17.1				
11	THNS	I CIVILIAN AIRCR	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	5.1	5.3	5.7	6.1	6.5				
12	THNS	I OTHER- RESIDUA	105.5	110.2	114.2	116.9	118.7	120.4	122.7	125.3	66.2	75.6	87.9	103.1	117.5				
13	THNS	I LESS: CONCEPTUAL	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.4	-2.5	-2.5	-2.5	-2.5				
14	THNS	I VS. CENSUS MERCHANDISE	66.3	67.5	68.6	69.5	70.4	71.3	72.1	73.0	49.7	53.6	59.6	65.6	70.0				
15	THNS	I INVESTMENT INCD	32.4	32.8	33.1	33.4	33.5	33.6	33.6	33.6	25.6	26.8	29.5	32.1	33.4				
16	THNS	I TRANSPORTATION	12.7	13.4	13.7	13.8	13.9	13.9	13.9	13.9	8.5	9.5	10.8	12.1	13.3				
17	THNS	I TRAVEL	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.1	6.7	7.6	8.7	9.7				
18	THNS	I OTHER SERVICES	12.7	12.6	13.2	13.4	13.7	13.9	14.2	14.4	9.5	10.6	11.6	12.6	13.6				
19	THNS	I MILITARY SALES	9.6	9.9	10.1	10.4	10.6	10.9	11.1	11.4	7.1	7.5	8.5	9.5	10.5				
20	THNS	I TIMING DISCREP, BU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9	0.0	0.0	0.0	0.0				
21	THNS	I TOTAL IMPORTS, NIA	267.5	272.5	276.8	281.6	286.3	292.3	298.5	303.4	189.4	214.6	239.4	264.6	284.3				
22	THNS	I MERCHANDISE IMPOR	216.0	219.8	222.9	226.6	230.1	235.0	240.1	243.9	154.5	174.4	194.3	213.9	228.7				
23	THNS	I MERCHANDISE IMPT	211.9	215.7	218.8	222.5	226.0	230.9	236.0	239.4	150.0	170.3	190.2	209.8	224.4				
24	THNS	I FOOD AND BEVERA	21.6	21.9	22.3	22.7	23.2	23.6	24.0	24.4	16.1	18.0	19.7	21.3	23.0				
25	THNS	I MATERIALS	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	8.5	9.0	9.4	9.7	10.2				
26	THNS	I FUELS	65.7	67.5	69.3	71.9	74.5	77.2	80.6	82.7	44.6	50.9	57.0	64.7	73.2				
27	THNS	I MANUFACTURED GO	114.9	116.4	117.2	117.8	118.1	119.7	120.9	122.1	80.7	92.5	104.1	114.0	118.2				
28	THNS	I AUTOS & PARTS	22.4	22.9	23.5	24.1	24.7	25.3	26.0	26.7	18.0	19.1	20.4	22.1	24.4				
29	THNS	I CANADIAN AUTO	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	9.5	10.3	11.1	11.9	12.7				
30	THNS	I MEXICAN AUTO	10.4	10.7	11.1	11.5	11.9	12.3	12.8	13.3	8.5	9.3	10.2	11.7	12.7				
31	THNS	I OTHER- RESIDUA	92.5	93.7	94.4	95.4	96.4	97.4	98.4	99.4	62.7	73.4	83.7	91.9	95.8				
32	THNS	I LESS: CONCEPTUAL	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.5	-4.1	-4.1	-4.1	-4.1				
33	THNS	I VS. CENSUS MERCHANDISE	51.0	52.3	53.4	54.6	55.8	57.0	58.0	59.1	34.7	39.0	44.7	50.3	55.2				
34	THNS	I TRAVEL	11.1	11.4	11.7	12.1	12.3	12.6	12.8	12.9	7.6	8.8	9.8	10.7	11.9				
35	THNS	I TRANSPORT	17.1	17.6	18.1	18.6	19.0	19.4	19.8	20.2	10.5	12.3	14.4	16.0	18.0				
36	THNS	I PAYMENT, U S FRE	18.5	18.9	19.2	19.6	19.9	20.4	20.7	21.1	12.7	14.4	16.1	18.2	19.8				
37	THNS	I OTHER SERVICES	4.6	4.7	4.7	4.8	4.8	4.9	4.9	5.0	4.0	4.2	4.4	4.6	4.8				
38	THNS	I DIRECT DEFENSE EX	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.4	5.6	5.6				
39	THNS	I TIMING DISCREP, BU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0				
40	THNS	I LESS: FED INT PAI	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.2	5.2	5.2	5.2				

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LINE VAR LABEL	I T E M	TABLE	N.10 FOREIGN TRADE VARIABLES
		1977.2	1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2

[illegible]

THE WHARTON QUANTITATIVE MODEL MAN 4.6
SPECIAL UNR FORECAST: OCTOBER 1977

TABLE 1.10 FOREIGN TRADE VARIANTS

LINE VAR LABEL	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
LEVELS													
1	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	100.4	102.7	104.4	105.7	105.8
2 MEXA	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	94.6	95.5	94.0	94.8	95.0
3 MEXB	3.20	3.10	3.00	3.00	3.00	3.00	3.00	3.00	4.38	4.02	3.65	3.25	3.00
4 MEXC	186.9	187.0	187.0	187.0	187.0	187.0	187.0	187.0	172.9	180.0	185.0	186.7	187.0
5 MEXD	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.27	20.57	20.70	20.70	20.70
6 MEXE	0.101	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.113	0.109	0.105	0.101	0.100
7 MEXF	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	42.0	47.5	49.7	48.8	48.8
8 MEXG	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	93.67	95.0	94.0	94.0	94.0
9 MEXH	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.3	98.4	98.4	98.4	98.4
10 MEXI	0.92	0.91	0.90	0.90	0.90	0.90	0.90	0.90	0.87	0.88	0.89	0.91	0.90
11 MEXJ													
12 MEXK													
PERCENT CHANGES													
13	6.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	2.9	3.9	4.9	5.9	5.6
14	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	9.5	9.5	6.4	5.9	5.5
15	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.9	9.3	8.1	8.1	8.1
16	6.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.4	10.8	9.7	8.4	7.9
17	8.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.1	10.8	9.7	8.4	7.9
18	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.7	11.1	8.1	8.0	8.0
19	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.4	13.4	12.1	12.0	12.0
20	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	6.3	8.3	8.5	8.5	8.5
21	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	16.9	12.0	10.2	9.1	9.0
22	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.7	4.7	5.0	5.0	5.0
23	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	3.0	4.8	6.6	7.0	7.0
24	7.2	6.3	6.4	10.4	10.4	10.4	10.4	10.4	-2.8	10.7	8.5	7.0	8.0
25	6.8	5.7	5.7	9.5	9.5	9.5	9.5	9.5	-2.5	10.2	8.1	6.5	7.3
26	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.1	8.7	6.8	6.9	6.0
27	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	27.3	19.5	15.3	15.0	15.0
28	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	17.8	15.6	15.0	15.0	15.0
29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	12.0	10.1	10.0	10.0
30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	18.7	14.5	10.5	10.0	10.0
31	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.6	4.7	5.0	5.0	5.0
32	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.8	9.4	9.0	9.0	9.0
33	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	2.1	4.3	6.5	6.5	6.5
34	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.9	3.3	4.9	4.9	4.8
35	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	-0.9	4.4	6.9	7.0	7.0
36	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	4.7	4.7	6.9	7.0	7.0
37	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.1	1.4	3.1	3.9	4.0
38	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.1	2.8	4.7	5.0	5.0
39	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	1.0	4.0	4.0	4.0
40	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.6	2.9	4.8	4.8	4.0
41	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.6	5.5	5.5
42	16.9	16.2	15.6	14.5	14.1	13.7	13.7	13.7	7.7	14.2	17.5	16.3	14.1
43	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.1	4.1	3.8	3.5	3.3	3.2
44	9.1	4.8	5.5	4.5	4.5	4.5	4.5	4.5	-3.5	-2.0	2.7	7.0	5.7
45	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	13.8	7.4	4.9	4.8	4.0
46	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	20.8	6.3	-2.9	3.6	6.1
47	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	6.2	6.5	7.5	8.2
48	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	8.4	7.3	7.0	6.4	6.0
49	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	28.6	8.5	5.0	5.0	5.0
50	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	-2.5	-1.5	2.9	4.0	4.0
51													
52													
53													

THE MONTHLY QUARTERLY MODEL MARK 4.0
SPECIAL OMM FORECAST: OCTOBER 1977

TABLE		9.00 FEDERAL GOVERNMENT RECEIPTS AND EXPENDITURES													
LINE VAR LABEL	ITEM	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2	
1 GVPFS	FEDERAL GOVERNMENT RECE	371.21	363.8	396.6	407.1	415.1	430.4	442.2	446.0	450.2	471.7	483.2	502.0	515.5	
2 TRCPFS	PERSONAL TAX & MINTAX	168.61	170.4	178.0	175.5	181.1	194.0	201.9	193.6	200.2	207.2	215.2	219.1	226.6	
3 TRCCFS	COMPANATE PROFITS TAX	59.91	67.2	70.6	69.7	70.2	70.7	72.7	74.6	77.9	81.8	82.6	88.5	90.5	
4 TRCNFS	IND BUS TAX & SPEC OIL	24.61	24.9	25.3	29.6	29.7	29.9	30.0	36.5	36.7	37.0	37.3	42.9	43.6	
5 TRCNFS	SPECIAL OIL TARIFF---	0.01	0.0	0.0	4.5	4.4	4.3	4.1	8.8	8.7	8.7	8.7	11.6	12.0	
6 TRCNFS	INDUSTRY BUS TAX/MUNT	24.61	24.9	25.3	25.1	25.3	25.6	25.9	27.7	28.0	28.1	28.6	31.3	31.6	
7 TRCNFS	GAS TAX COLLECTIONS---	4.01	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5	
8 TRCNFS	IND BUS TAX ACC/MON U	20.21	20.6	20.9	20.7	21.0	21.2	21.5	23.3	23.6	23.8	24.1	26.9	27.1	
9 TRCNFS	CONTRIBUTIONS FOR SOCI	118.11	121.3	122.0	132.3	134.0	135.8	137.7	141.3	143.5	145.0	148.1	152.3	154.8	
10															
11 GVPFS	FEDERAL GOVT EXPENDITUR	411.51	430.6	443.0	454.5	465.3	479.4	494.3	503.7	513.1	531.7	542.3	550.4	559.3	
12 GVPFS	PURCHASES OF GOODS & S	143.01	151.5	157.9	160.7	163.5	166.5	173.7	174.4	179.1	182.3	190.6	193.0	196.9	
13 GVPFS	NATIONAL DEFENSE---	93.41	97.3	101.7	103.2	104.7	106.4	110.9	112.6	114.3	116.8	121.6	123.4	125.3	
14 GVPFS	OTHER	50.21	54.2	56.2	57.5	58.8	60.1	62.0	63.8	64.8	65.9	69.0	70.3	71.7	
15 TRGFS	TRANSFER PAYMENTS---	169.31	174.4	176.0	180.1	183.1	190.0	192.9	195.9	198.9	211.5	211.2	214.7	218.2	
16 TRGFS	TO FOREIGNERS (NET)---	2.91	3.3	3.3	3.3	3.4	3.5	3.6	3.6	3.6	3.7	3.7	3.8	3.8	
17 TRGFS	TO PENSIONS---	166.41	171.1	173.5	176.0	179.7	186.5	189.3	192.3	195.3	207.8	207.5	210.9	214.4	
18 TRGFS	UNEMPLOYMENT COMP---	12.31	12.3	12.7	13.0	12.9	12.7	12.5	12.5	12.5	12.4	12.2	12.1	12.1	
19 TRGFS	OTHER TRANSFERS---	158.11	158.8	160.8	163.8	166.8	173.0	176.0	179.0	182.8	195.4	195.3	198.0	202.3	
20 GVGFS	GRANTS-IN-AID TO STATE	63.61	67.0	69.5	72.0	74.5	77.0	79.5	82.0	84.5	86.0	87.5	89.0	90.5	
21 VINTGFS	NET INTEREST PAID---	29.11	29.7	30.6	31.7	32.7	33.9	35.1	36.4	37.7	38.0	39.9	40.9	41.6	
22 GVSUBFS	SUB LESS CURR SURPLUS	5.91	6.0	9.0	10.0	11.5	12.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0	
23 WALGFS	LESS: WAGE ACCR LESS D	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24															
25 GVSURFS	FEDERAL GOVT SURPLUS/INI	-40.31	-46.0	-47.2	-47.4	-50.3	-49.0	-52.1	-57.6	-54.9	-60.0	-59.1	-47.6	-43.8	

THE NATION QUANTITARY MODEL MARK 4.0 SPECIAL ONR FORECAST: OCTOBER 1977

TABLE 9.00 FEDERAL GOVERNMENT RECEIPTS AND EXPENDITURES

LINE	VAR LABEL	ITEM	1960.5	1960.4	1961.1	1961.2	1961.3	1961.4	1962.1	1962.2	1977	1978	1979	1980	1981
1	GVRF	FEDERAL GOVERNMENT RECE	528.3	544.1	558.8	572.0	586.9	602.6	618.8	631.9	579.1	423.7	444.8	522.7	580.1
2	TRCPS	PERSONAL TAX & NONTAX	214.2	243.2	249.0	257.0	265.4	275.5	283.0	291.4	171.8	184.1	204.0	230.8	261.7
3	TRCPS	CORPORATE PROFITS TAX	92.3	95.7	99.5	101.3	104.1	106.2	104.0	110.1	61.3	70.8	79.2	91.7	102.8
4	TRCPS	IND BUS TAX & SPEC OIL	40.4	45.3	45.7	46.4	47.2	48.0	48.9	49.5	24.7	29.8	36.8	44.1	46.9
5	TRCPS	SPECIAL OIL TARIFF	12.5	13.0	13.5	13.9	14.4	14.9	15.5	15.8	0.0	4.5	6.7	12.3	14.2
6	TRCPS	INDIRECT BUS TAX/MONT	31.9	32.3	32.2	32.5	32.8	33.1	33.4	33.7	24.7	25.5	26.1	26.8	27.4
7	TRCPS	GAS TAX COLLECTIONS	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.7	4.8	4.8	4.8	4.8
8	TRCPS	IND BUS TAX ACC/MONT	27.4	27.7	27.6	27.9	28.2	28.5	28.7	29.0	20.4	21.1	21.7	22.3	22.8
9	TRCPS	CONTRIBUTIONS FOR SOCI	157.4	159.9	164.6	167.3	170.2	173.0	178.0	180.8	119.4	135.0	144.7	156.1	168.8
10	GVFE	FEDERAL GOVT EXPENDITUR	501.2	507.9	595.0	604.2	629.4	634.8	644.1	653.1	422.4	473.4	522.7	569.7	615.8
11	GVFE	PURCHASES OF GOODS & S	200.3	208.8	212.2	215.7	219.4	229.1	232.8	236.7	147.3	166.1	182.1	199.9	219.1
12	GVFE	NATIONAL DEFENSE	127.3	132.3	134.2	136.2	138.4	144.3	146.4	148.5	95.5	106.3	116.2	127.1	138.3
13	GVFE	OTHER	73.1	76.5	78.0	79.5	81.0	84.0	86.4	88.1	51.8	59.8	65.9	72.9	80.8
14	GVFE	TRANSFER PAYMENTS	234.7	231.0	234.4	237.8	257.0	250.5	254.0	257.5	172.8	186.5	204.4	224.7	244.4
15	TRGFS	TO FOREIGNERS (NET)	3.9	3.9	4.0	4.0	4.1	4.1	4.2	4.2	3.1	3.4	3.6	3.8	4.0
16	TRGFS	TO PERSONS	230.8	227.1	230.4	233.8	252.9	246.4	249.8	253.3	169.7	183.1	200.7	220.8	240.9
17	TRGFS	UNEMPLOYMENT COMP	12.0	11.8	11.6	11.5	11.3	11.1	11.0	11.0	13.1	12.8	12.9	12.8	12.8
18	TRGFS	OTHER TRANSFERS	218.8	215.3	218.8	222.3	241.6	235.3	238.8	242.3	156.6	170.3	189.3	208.0	229.5
19	GVGFS	GRANTS-IN-AID TO STATE	92.0	93.5	95.0	96.5	98.0	99.5	101.0	102.5	65.5	75.8	85.0	91.3	97.3
20	GVGFS	NET INTEREST PAID	42.2	42.7	43.4	44.2	45.0	45.7	46.2	46.5	29.5	33.4	36.2	41.8	44.6
21	GVGFS	SUB LESS CURR SURPLUS	12.0	12.0	10.0	10.0	10.0	10.0	10.0	10.0	7.3	11.6	13.0	12.0	10.0
22	GVGFS	LESS: WAGE ACCR LESS D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	GVGFS	FEDERAL GOVT SURPLUS/INI	-52.9	-43.8	-36.2	-32.1	-42.5	-32.2	-25.2	-21.2	-43.3	-49.7	-57.9	-47.0	-35.8

MAXIMUM DESCRIPTOR WIDTH PERMITTED IS LESS THAN ACTUAL WIDTH, TRUNCATION WILL OCCUR
ACTUAL= 26 PERMITTED= 20

SPECIAL ONR FORECAST: OCTOBER 1977

TABLE 10.00 STATE AND LOCAL GOVERNMENT RECEIPTS AND EXPENDITURES

LINE	VAR LABEL	ITEM	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	GVRS	STATE & LOCAL GOV RE	280.1	296.2	303.3	310.3	317.5	324.5	332.2	340.0	348.1	355.7	363.3	371.2	378.9
2	TRCPS	PERSONAL TAX/NONTAX	56.2	57.4	59.4	61.0	62.9	64.8	66.9	68.6	70.7	72.9	75.3	77.8	79.7
3	TRCPS	CORPORATE PROFITS T	9.8	10.1	10.3	10.4	10.4	10.5	10.6	10.7	10.9	11.2	11.5	11.8	12.0
4	TRCPS	INDIRECT BUS TAX &	138.6	141.5	143.8	145.7	148.0	150.2	152.6	155.6	158.3	161.4	164.4	167.6	170.7
5	TRCPS	LIQUOR & TOBACCO S	6.0	5.8	5.8	5.7	5.7	5.7	5.7	5.6	5.6	5.7	5.7	5.7	5.7
6	TRCPS	GASOLINE TAXES	9.3	9.5	9.5	9.6	9.7	9.7	9.7	9.6	9.9	10.0	10.2	10.4	10.5
7	TRCPS	PROPERTY TAXES	62.2	63.3	64.3	65.4	66.7	67.9	69.2	70.7	72.2	73.8	75.5	77.2	78.9
8	TRCPS	OTHER	61.1	62.9	63.8	65.0	66.0	66.9	67.9	69.3	70.8	71.7	72.9	74.3	75.5
9	TRCPS	CONTRIBUTIONS SOCIA	19.9	20.3	20.7	21.1	21.6	22.1	22.6	23.1	23.6	24.2	24.7	25.3	26.0
10	GVGFS	GRANTS-IN-AID FR FE	63.5	67.0	69.5	72.0	74.5	77.0	79.5	82.0	84.5	86.0	87.5	89.0	90.5
11	GVFS	STATE & LOCAL GOV F	262.6	270.5	277.3	284.1	291.0	298.0	305.3	312.7	320.2	328.0	336.0	344.1	352.4
12	GVFS	PURCHASES OF GOODS	247.0	254.1	259.9	265.9	272.0	278.2	284.6	291.2	297.8	304.7	311.7	318.8	326.1
13	TRGFS	TRANSFER PAYMENTS TO	27.7	28.4	29.3	30.2	31.0	31.8	32.7	33.5	34.4	35.3	36.3	37.3	38.3
14	TRGFS	NET INTEREST PAID	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3
15	GVGFS	SUB LESS CURR SUR CU	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7
16	GVGFS	LESS: WAGE ACCR LESS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	GVGFS	STATE LOCAL SURPL: MIA	25.4	25.7	26.1	26.2	26.5	26.5	26.9	27.3	27.8	27.7	27.5	27.1	26.5

SPECIAL UHM FORECAST: OCTOBER 1977

LINE	VAN LABEL	ITEM	TABLE 10.00 STATE AND LOCAL GOVERNMENT RECEIPTS AND EXPENDITURES												
			1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	GROSS	STATE & LOCAL GOV RE	386.6	394.7	402.4	410.2	418.4	426.7	434.8	442.91	292.2	321.1	351.8	387.9	414.4
2	INCPSS	PERSONAL TAX/HOMTAX	82.1	84.8	87.2	89.6	92.3	95.2	97.9	100.51	56.8	61.9	71.9	81.0	91.1
3	INCPSS	CORPORATE PROFITS	12.2	12.6	12.9	13.2	13.5	13.8	14.2	14.41	9.8	10.5	11.1	12.2	13.4
4	INCPSS	INDIRECT BUS TAX &	173.7	176.5	179.4	182.3	185.3	188.1	191.1	194.01	119.9	140.1	157.9	172.1	183.8
5	INCPSS	LICENS & TOBACCO	5.8	5.8	5.8	5.8	5.9	5.9	5.9	6.01	5.9	5.7	5.7	5.7	5.8
6	INCPSS	GASOLINE TAXES	10.6	10.8	10.9	11.0	11.1	11.2	11.3	11.51	9.8	9.7	10.1	10.6	11.1
7	INCPSS	PROPERTY TAX	80.4	81.9	83.4	85.0	86.3	87.7	89.1	90.61	62.7	67.3	73.1	79.6	85.6
8	INCPSS	OTHER	76.9	78.0	79.3	80.5	82.0	83.3	84.7	86.01	61.9	66.4	71.1	76.2	81.3
9	INCPSS	CONTRIBUTIONS SOCIA	26.6	27.2	27.9	28.6	29.3	30.0	30.8	31.51	20.1	21.8	23.9	26.3	29.0
10	GRVCLAS	GRANTS-IN-AID FR FF	92.0	93.5	95.0	96.5	98.0	99.5	101.0	102.51	65.5	75.8	85.0	91.3	97.3
11	GROSS	STATE & LOCAL GOVT E	360.9	369.6	378.4	387.5	396.8	406.4	416.1	426.11	266.0	294.6	324.2	356.7	392.3
12	INCPSS	PURCHASES OF GOODS	333.6	341.3	349.1	357.1	365.3	373.7	382.3	391.01	249.9	275.2	301.3	330.0	361.3
13	INCPSS	TRANSFER PAYMTS TO	39.3	40.3	41.3	42.4	43.5	44.7	45.9	47.11	28.1	31.4	34.9	38.0	43.0
14	INCPSS	NET INTEREST PAID--	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.31	-6.3	-6.3	-6.3	-6.3	-6.3
15	INCPSS	SUM LESS CUR SUR GO	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	-5.71	-5.7	-5.7	-5.7	-5.7	-5.7
16	GRVINTSS	LESS: WAGE ACCR LES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
17	WALDCSS	STATE SUPPLY NIA	25.8	25.1	24.0	22.7	21.5	20.3	18.7	16.81	26.1	26.5	27.5	28.1	22.1
18	GRVINTSS														
19	GRVINTSS														

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THE BUREAU OF ECONOMIC ANALYSIS
SPECIAL UNR FORECAST: OCTOBER 1977

LINE VAR LABEL		TABLE I I F M											
		11,00 GNP, NATIONAL INCOME, PERSONAL INCOME AND PERSONAL SAVINGS											
		1977,2 1977,3 1977,4 1978,1 1978,2 1978,3 1978,4 1979,1 1979,2 1979,3 1979,4 1980,1 1980,2											
1	GNPS	1 GROSS NATIONAL PRODUCT- 1869,4 1919,0 1973,5 2019,8 2065,7 2110,5 2161,4 2210,6 2261,3 2315,6 2374,2 2434,3 2492,0											
2													
3	CCATS	3 LESS CAPITAL CONSUMPTION 193,3 200,2 204,9 211,0 216,4 222,1 227,7 234,2 240,3 246,7 253,1 261,2 268,5											
4													
5	HNPS	5 EQUALS NET NATIONAL PR 1676,6 1718,7 1768,5 1808,6 1849,3 1886,4 1933,7 1976,5 2021,0 2068,9 2121,1 2173,1 2223,5											
6	IXCRS	6 LESS INDIRECT BUSINESS 163,3 166,4 168,7 175,3 177,7 180,1 182,6 184,4 187,1 189,9 192,8 195,6 198,3											
7	IXBUS	7 BUSINESS TRANSFER 6,9 9,1 9,3 9,5 9,7 9,9 10,1 10,3 10,5 10,7 10,9 11,1 11,3											
8	SOS	8 STATISTICAL DISCR -1,2 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0											
9	GVSAVTS	9 PLUS: SUB-CURR SUMP GOV 0,1 2,3 3,3 4,3 5,0 6,3 7,3 7,3 7,3 7,3 7,3 7,3											
10													
11	YNS	11 EQUALS NATIONAL INCOME 1505,7 1545,5 1593,9 1628,4 1667,6 1704,8 1748,3 1781,4 1822,8 1867,1 1915,8 1957,7 2004,1											
12													
13	CPABTS	13 LESS: CORPORATE PROFITS 140,2 155,9 166,5 165,2 169,3 172,5 178,2 180,5 186,7 193,4 200,4 205,8 211,9											
14	IXCSTPS	14 CONTRIB FOR SOCIA 138,0 141,6 143,4 153,4 155,6 157,9 160,2 164,4 167,1 169,9 172,8 177,6 180,7											
15	IXCSTPS	15 PERSONAL CONTRIB 60,8 62,4 63,3 66,0 66,9 67,9 68,9 70,7 71,8 73,1 74,3 76,4 77,7											
16	SUPTPS	16 EMPLOYER CONTRIB 77,1 79,1 80,2 87,4 88,7 90,0 91,3 93,7 95,2 96,9 98,5 101,2 103,0											
17	WALDS	17 WAGE ACCE LESS DI 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0											
18													
19	TRTOPS	19 PLUS: TRANSFERS TO PERS 203,0 208,6 212,1 216,5 220,4 226,2 232,1 236,1 240,1 245,8 254,7 259,3 264,0											
20	TRGVPs	20 GOVERNMENT TRANS 194,0 199,5 202,8 207,0 210,7 218,3 222,0 225,8 229,6 243,1 248,2 252,7											
21	TRHUS	21 BUSINESS TRANSF 8,9 9,1 9,3 9,5 9,7 9,9 10,1 10,3 10,5 10,7 10,9 11,1 11,3											
22	VINTCS	22 INT PAID BY CONSU 24,9 29,7 30,6 31,5 32,3 33,0 33,7 34,4 34,9 35,5 36,0 36,5 36,9											
23	VINTGFS	23 INT PAID BY FED G 29,1 29,7 30,6 31,7 32,7 33,9 35,1 36,4 37,7 38,8 39,9 40,9 41,6											
24	VINTGFPFS	24 LESS: FED PD TO F 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2 5,2											
25	VINTGFS	25 INT PAID BY ST A -6,3 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0											
26	VDIVTS	26 DIVIDENDS----- 40,3 42,6 44,4 46,2 47,8 49,4 51,0 53,0 55,8 59,0 62,4 65,9 68,4											
27													
28	YPS	28 EQUALS PERSONAL INCOME 1517,2 1547,2 1590,1 1624,0 1664,4 1707,4 1750,3 1788,9 1826,0 1879,4 1924,2 1965,3 2010,9											
29	WUDS	29 WAGE & SALARY 940,9 910,0 910,0 910,0 910,0 910,0 910,0 910,0 910,0 910,0 910,0 910,0 910,0											
30	SUPTPS	30 OTHER LABOR IN 86,7 89,6 93,1 96,1 99,3 102,3 105,7 108,7 111,7 114,9 118,4 121,5 124,8											
31	VENTPS	31 PROFITURS: I 97,0 96,8 97,2 97,3 99,0 101,0 102,4 100,5 102,3 105,2 106,4 106,4 109,2											
32	VENTPS	32 BUS. & PROFES 77,3 80,6 82,0 82,2 83,0 84,2 85,7 86,7 88,1 89,7 91,0 92,7 94,2											
33	VENTPS	33 FARM----- 19,7 16,2 15,2 15,0 16,0 16,7 17,4 18,1 18,8 19,5 20,2 20,9 21,6											
34	VENTPS	34 PERSONAL RENTA 24,9 21,2 23,5 24,0 25,6 26,4 27,4 28,0 28,5 29,2 29,7 30,2 30,7											
35	VDIVTS	35 DIVIDENDS----- 40,3 42,6 44,4 46,2 47,8 49,4 51,0 53,0 55,8 59,0 62,4 65,9 68,4											
36	VINTPS	36 PERSONAL INTRN 145,4 150,0 155,5 161,1 166,7 172,5 178,1 183,9 189,5 195,0 200,6 206,1 211,4											
37	TRTOPS	37 TRANSFERS TO PE 203,0 208,6 212,1 216,5 220,4 226,2 232,1 236,1 240,1 245,8 254,7 259,3 264,0											
38	IXCSTPS	38 LESS: TRANSFERS CUNT 60,8 62,4 63,3 66,0 66,9 67,9 68,9 70,7 71,8 73,1 74,3 76,4 77,7											
39													
40	IXCPS	40 LESS: TRANSFERS TAX & MORTAX 224,8 227,8 237,4 236,6 244,0 258,8 268,8 262,2 270,9 280,0 290,5 296,5 306,3											
41													
42	YPS	42 EQUALS DISPOSABLE PERSU 1292,5 1319,4 1352,7 1387,4 1420,4 1488,6 1481,5 1522,7 1555,2 1599,3 1633,6 1668,0 1704,6											
43	YPS	43 TOTAL, 1972-- 424,5 429,3 441,8 452,0 462,2 499,1 499,1 499,1 499,1 499,1 499,1 499,1 499,1											
44	YPS	44 PER CAPITA, CU 596,7 616,6 620,4 630,4 639,9 650,0 660,0 670,0 680,0 690,0 700,0 710,0 720,0											
45	YPS	45 PER CAPITA, 19 4268,0 4128,6 4337,8 4377,5 4417,5 4441,9 4480,6 4538,6 4558,6 4619,6 4650,3 4664,7 4683,8											
46													
47	YPS	47 EQUALS TOTAL PERSONAL IN 1223,9 1253,6 1282,6 1314,0 1343,1 1371,0 1399,0 1432,1 1462,6 1496,8 1528,2 1562,8 1595,7											
48	YPS	48 PERSONAL CONSUM EX 1194,0 1222,9 1251,0 1281,5 1309,0 1337,0 1365,0 1396,8 1426,7 1460,3 1491,2 1525,3 1557,8											
49	YPS	49 INTEREST ON M Y C 24,9 29,7 30,6 31,5 32,3 33,0 33,7 34,4 34,9 35,5 36,0 36,5 36,9											
50	YPS	50 TRANSFERS TO FOM 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0											
51	YPS	51 PERSONAL SAVING 64,5 65,8 70,2 73,5 77,3 77,6 81,8 90,5 92,6 102,5 105,4 106,0 109,0											
52	YPS	52 PERSONAL SAVING 5,30 4,99 5,19 5,29 5,44 5,55 5,52 5,95 6,41 6,45 6,35 6,39											

THE W H A R T O N W A R K I F K L Y M O D E L M A K K 4.6
SPECIAL INH FORECAST: OCTOBER 1977

TABLE 11.00 GNP, NATIONAL INCOME, PERSONAL INCOME AND PERSONAL SAVINGS

LINE VAR LABEL	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1 GNP3	2552.6	2618.2	2679.7	2739.1	2804.2	2873.2	2937.1	3000.1	11893.3	2089.4	2240.4	2524.2	2774.0
2													
3 CCATS	275.6	283.0	291.0	299.0	307.3	315.9	325.4	334.7	196.9	219.3	243.6	272.1	303.3
4													
5 NNPS	2277.0	2335.1	2388.7	2440.1	2496.9	2557.3	2611.8	2665.4	11696.4	1870.1	2046.9	2252.2	2470.7
6 TXCH3	210.1	221.0	225.1	228.6	232.5	236.1	239.9	243.5	164.6	174.9	196.8	216.2	230.6
7 TRNUS	11.5	11.7	11.9	12.1	12.3	12.5	12.7	12.9	9.0	9.8	10.6	11.4	12.2
8 SDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
9 GVSURTS	6.3	6.3	4.3	4.3	4.3	4.3	4.3	4.3	1.5	5.9	7.3	6.1	4.3
10													
11 YMS	2053.6	2107.9	2156.0	2203.6	2256.4	2313.0	2363.4	2413.3	11523.8	1647.3	1846.8	2050.8	2232.3
12													
13 CPATS	220.8	226.5	235.7	240.9	248.5	253.4	257.3	261.2	147.0	171.3	190.3	216.8	244.6
14 TXCH3	104.0	107.1	109.5	109.5	109.5	109.5	109.5	109.5	139.5	156.6	168.6	182.4	197.7
15 TXCH3P	79.1	80.5	82.8	84.2	85.8	87.3	88.7	91.3	61.5	67.4	72.5	78.4	85.0
16 SUPTES	104.7	106.7	109.7	111.7	113.7	115.7	117.7	119.7	78.0	89.4	96.1	103.9	112.7
17 WALDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18													
19 TRNPS	281.6	279.1	283.6	288.3	293.7	298.4	303.6	308.4	313.3	206.0	224.3	246.2	271.0
20 TRNPS	270.1	267.4	271.7	276.2	281.6	286.4	291.1	295.7	300.4	197.8	214.5	235.6	261.9
21 TRNPS	11.5	11.7	11.9	12.1	12.3	12.5	12.7	12.9	9.0	9.8	10.6	11.4	12.2
22 TRNPS	31.3	31.7	32.2	32.6	33.0	33.5	33.9	34.3	29.2	32.6	35.2	37.1	38.6
23 TRNPS	42.2	42.7	43.4	44.2	45.0	45.7	46.2	46.5	29.5	33.4	36.2	41.0	44.8
24 TRNPS	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.2	5.2	5.2	5.2
25 TRNPS	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3
26 TRNPS	72.2	75.5	78.7	81.8	84.9	87.9	90.9	93.7	41.4	48.6	57.6	70.5	83.3
27													
28 YFS	2070.6	2115.0	2160.2	2205.2	2250.2	2295.2	2340.2	2385.2	11512.0	1686.5	1853.5	2040.6	2241.2
29 YFS	1310.4	1344.1	1373.9	1403.9	1433.9	1463.9	1493.9	1523.9	940.2	1085.5	1237.5	1421.9	1621.9
30 SUPNPS	120.1	131.7	135.0	138.3	141.6	144.9	148.2	151.5	88.2	100.0	113.4	126.5	140.2
31 YFS	110.9	113.3	115.7	118.1	120.5	122.9	125.3	127.7	96.5	99.9	103.6	110.0	115.6
32 YFS	96.0	97.8	99.3	100.7	102.4	104.0	105.4	106.6	78.6	83.8	89.0	95.2	101.6
33 YFS	14.9	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.1	16.1	16.1	16.1	16.1
34 YFS	29.9	30.5	30.9	31.6	32.2	32.8	33.3	33.9	23.5	25.2	27.6	29.5	31.9
35 YFS	72.2	75.5	78.7	81.8	84.9	87.9	90.9	93.7	41.4	48.6	57.6	70.5	83.3
36 YFS	210.7	222.1	227.9	233.9	240.2	246.7	253.3	259.9	147.8	169.6	192.7	214.1	237.2
37 YFS	279.1	283.6	288.3	293.7	298.4	303.6	308.4	313.3	206.0	224.3	246.2	271.0	296.1
38 YFS	79.1	80.5	82.8	84.2	85.8	87.3	88.7	91.3	61.5	67.4	72.5	78.4	85.0
39													
40 YFS	316.4	328.1	336.2	346.6	357.7	370.7	380.9	392.1	228.6	252.0	275.9	311.8	352.0
41													
42 YFS	1754.2	1787.7	1824.0	1861.5	1917.0	1951.1	1990.4	2030.0	11304.3	1434.5	1577.7	1728.0	1888.4
43 YFS	1088.0	1058.0	1080.0	1085.9	1081.7	1084.5	1089.1	1093.8	926.0	965.5	1007.5	1040.7	1073.0
44 YFS	794.2	807.8	822.4	832.6	841.6	850.6	859.6	868.6	650.2	650.2	650.2	650.2	650.2
45 YFS	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
46													
47 YFS	1630.6	1664.0	1698.3	1733.3	1773.3	1810.7	1849.9	1889.9	11240.3	1356.9	1479.9	1613.3	1753.9
48 YFS	1592.3	1625.3	1659.1	1693.7	1733.3	1770.2	1809.0	1847.8	11210.1	1323.3	1443.7	1575.2	1714.1
49 YFS	37.3	37.7	38.2	38.6	39.0	39.5	40.0	40.5	29.2	32.6	35.2	37.1	38.6
50 YFS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
51 YFS	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6	123.6
52 YFS	7.04	6.92	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89

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THE WASHINGTON QUARTERLY MODEL MARK 4.0 SPECIAL GMR FORECAST: OCTOBER 1977

TABLE 12.00 NATIONAL INCOME BY TYPE

LINE	VAR LABEL	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	YNS	1505.7	1545.5	1593.9	1628.4	1667.6	1704.8	1748.1	1781.8	1822.8	1867.1	1915.8	1957.7
2													
3	WCS	1148.7	1169.7	1200.9	1232.5	1261.4	1288.6	1320.6	1349.2	1378.1	1408.4	1440.4	1476.7
4	WSS	900.9	9100.9	927.6	949.0	973.4	996.3	1023.6	1046.8	1071.1	1096.7	1127.5	1155.9
5	WSPVS	783.6	800.9	820.5	839.3	861.2	881.5	901.4	922.1	944.0	967.3	990.2	1014.0
6	SUPIS	163.8	168.8	173.3	183.5	188.0	192.3	197.0	202.4	207.0	211.7	216.9	222.8
7	SUPIS	77.1	79.1	80.2	87.4	88.7	90.0	91.3	93.7	95.2	96.9	98.5	101.2
8	SUPIS	86.7	89.6	93.1	96.1	99.3	102.3	105.7	108.7	111.7	114.9	118.4	121.5
9													
10	WFS	97.0	96.8	97.2	97.3	99.0	101.0	102.4	100.5	102.3	105.2	106.4	109.2
11	WFS	77.3	80.6	82.0	82.2	83.0	84.2	85.7	86.7	88.1	89.7	91.4	92.7
12	WFS	19.7	16.2	15.2	15.0	16.0	16.8	16.7	13.8	14.1	15.5	15.0	13.7
13	WFS	24.9	21.2	23.5	23.9	24.8	25.6	26.4	26.6	27.4	28.0	28.5	29.2
14	WFS	98.9	102.0	105.7	109.4	113.2	117.0	120.7	124.5	128.4	132.2	136.2	140.2
15													
16	CPAITS	140.2	155.9	166.5	165.2	169.3	172.5	178.2	180.5	186.7	193.4	200.4	211.9
17	CPAITS	174.0	187.2	195.9	202.2	204.4	206.4	212.0	216.0	225.3	235.6	238.3	259.2
18	EXCITS	69.7	77.3	81.0	80.1	80.6	81.2	83.3	85.3	88.8	91.0	93.9	102.5
19	CPAITS	104.3	110.0	115.0	122.1	123.8	125.2	128.7	131.5	136.5	142.6	148.8	153.5
20	VOITS	80.3	82.6	84.4	86.2	87.8	89.4	91.0	93.0	95.0	97.0	99.0	101.9
21	FTS	64.1	67.4	70.6	75.9	76.0	75.8	77.7	78.4	80.7	83.7	82.0	84.2
22	IVACS	-17.8	-15.1	-12.8	-19.9	-17.6	-16.0	-15.5	-17.6	-19.5	-22.7	-18.1	-20.4
23	CLACPS	-15.9	-16.3	-16.7	-17.1	-17.5	-17.9	-18.3	-18.7	-19.1	-19.5	-19.9	-20.3
24													
25	ADGADAI												
26	CPAITS	6.2	6.4	6.7	7.0	7.1	7.3	7.5	7.7	7.9	8.1	8.2	8.5
27	CPAITS	10.7	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8	12.0

A PRODUCT OF "HARTON" EFA., 4025 CHESTNUT ST, PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL UNK FORECAST: OCTOBER 1977

TABLE 12.00 NATIONAL INCOME BY TYPE

LINE	VAR LABEL	1980.5	1980.6	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	NATIONAL INCOME	2053.6	2107.9	2156.0	2203.6	2256.4	2313.0	2363.8	2413.3	11523.8	1687.3	1846.8	2030.8	2232.3
2														
3	WAGE	1543.8	1582.8	1618.7	1653.9	1691.7	1735.2	1774.3	1812.0	1156.3	1275.8	1395.0	1528.0	1674.9
4	WAGE	1310.8	1348.1	1373.9	1403.9	1436.2	1473.8	1506.2	1538.5	990.2	1085.6	1185.5	1297.5	1421.9
5	WAGE	1065.3	1090.4	1117.4	1144.5	1174.0	1202.5	1232.0	1261.3	790.3	870.8	955.0	1052.2	1159.6
6	SUPPLY	232.9	238.4	244.8	250.0	255.5	261.4	268.1	273.5	166.1	190.2	208.5	230.5	252.9
7	SUPPLY	104.9	106.7	109.7	111.7	113.7	115.7	119.0	121.0	78.0	89.4	96.1	103.9	112.7
8	SUPPLY	120.1	131.7	135.0	138.3	141.8	145.7	149.1	152.5	88.2	100.8	113.4	126.5	140.2
9														
10	WAGE	110.9	113.3	112.9	114.5	116.4	118.5	119.9	121.5	96.5	99.9	103.6	110.0	115.6
11	WAGE	96.0	97.8	99.3	100.7	102.4	104.0	105.4	106.8	78.6	83.6	89.0	95.2	101.6
12	WAGE	14.9	15.5	13.5	13.0	14.0	14.5	14.6	14.9	18.0	14.1	14.6	14.0	13.9
13	WAGE	29.9	30.5	30.9	31.6	32.2	32.8	33.3	34.1	23.5	25.2	27.6	29.5	31.9
14	WAGE	148.7	153.2	157.0	162.7	167.7	173.1	178.7	184.9	100.5	115.1	130.3	145.6	165.1
15														
16	WAGE	220.8	228.5	235.7	240.9	248.5	253.4	257.3	261.2	147.0	171.3	190.3	216.8	244.6
17	WAGE	264.3	273.5	283.7	289.2	297.1	303.1	310.8	314.2	179.7	206.3	229.0	262.6	293.3
18	WAGE	104.5	108.2	112.4	114.5	117.7	120.0	123.1	124.5	73.1	81.3	90.3	103.9	116.1
19	WAGE	159.8	165.3	171.3	174.6	179.4	183.1	187.7	189.8	106.6	125.0	138.7	158.7	177.1
20	WAGE	72.2	75.5	78.7	81.8	84.9	87.9	90.9	93.7	41.4	48.6	57.6	70.5	83.3
21	WAGE	87.6	89.8	92.6	92.8	94.5	95.2	96.8	96.1	65.2	76.4	81.2	88.2	93.8
22	WAGE	-22.4	-23.5	-26.0	-25.9	-25.9	-26.7	-30.0	-29.1	-16.6	-17.3	-19.5	-25.0	-24.1
23	WAGE	-21.1	-21.5	-21.9	-22.3	-22.7	-23.1	-23.5	-23.9	-16.1	-17.7	-19.3	-20.9	-22.5
24														
25														
26	WAGE	9.0	9.2	9.4	9.7	9.9	10.1	10.4	10.7	6.4	7.2	8.0	8.8	9.8
27	WAGE	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8	10.2	10.7	11.5	12.3	13.1

A PRODUCT OF WHARTON CPA., 4025 CHESTNUT ST., PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

BEST AVAILABLE COPY

THE WHARTON QUARTERLY MODEL MARK Q.6
SPECIAL QNR FORECAST, OCTOBER 1977

LINE VAR LABEL	ITEM	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1 FMS	1 MONEY SUPPLY- M1-----	321.1	328.0	335.3	340.6	346.5	353.0	359.9	363.9	370.9	374.4	377.0	381.0	402.1
2 FMS	1 % CHANGE MONEY SUPPLY -	0.001	0.92	9.14	6.57	7.04	7.71	8.05	4.55	7.89	4.08	4.92	7.31	4.61
4 FM2S	1 MONEY SUPPLY- M2-----	768.4	787.5	804.8	820.3	836.2	852.3	869.1	882.3	898.5	915.9	933.4	948.8	965.5
5 FM2S	1 % CHG MONEY SUPPLY- M2	9.59	10.34	9.09	7.90	8.01	7.93	8.13	6.21	7.54	7.97	7.85	6.77	7.24
7 FCUS	M CURRENCY IN CIRCULATION	83.6	85.5	87.5	89.6	91.0	93.9	96.1	98.4	100.7	103.0	105.4	107.9	110.4
8 FODS	1 DEMAND DEPOSITS-----	242.4	246.5	252.2	255.5	259.7	263.5	268.2	270.0	275.2	280.3	286.1	290.5	294.7
9 FODPS	1 PRIVATE-----	237.5	242.5	247.7	251.0	254.7	259.0	263.7	265.5	270.2	275.4	281.6	286.0	291.7
10 FODGS	1 GOVERNMENT-----	4.9	4.0	4.5	4.5	5.0	4.5	4.5	4.5	5.0	4.5	4.5	4.5	5.0
11 FODTS	1 TIME DEPOSITS-----	509.9	522.0	532.3	543.0	554.2	565.0	576.6	587.4	598.7	610.4	622.1	633.1	644.6
12 FODTS	M SAVINGS DEPOSITS-----	447.3	459.5	469.6	479.6	489.8	499.4	509.3	518.5	527.7	537.1	546.4	554.9	563.4
13 FODTS	M CERTIFICATES OF DEPOSIT	62.6	62.5	62.7	63.3	64.4	65.7	67.3	69.0	71.0	73.3	75.7	78.2	81.2
14														
15	MONEY MARKET RATES													
16 FRMF	M FEDERAL FUNDS RATE-----	5.16	5.95	6.99	7.13	7.27	7.63	7.65	8.05	8.15	8.20	8.41	8.87	9.07
17 FRMF	M 3 MONTH TREASURY BILLS--	4.84	5.67	6.70	6.68	6.73	7.02	6.96	7.36	7.39	7.41	7.57	7.99	8.04
18 FRMF	M PRIME COMM PAPER- 4-6 M	5.24	5.93	6.71	6.81	6.87	7.14	7.11	7.50	7.57	7.58	7.73	8.16	8.28
19 FRMF	M PRIME RATE FOR LARGE BU	6.07	7.01	7.78	8.16	8.30	8.49	8.55	8.83	8.99	9.07	9.19	9.54	9.78
20 FRMF	M CD RATE- 3 MO., SECOND	5.17	5.89	6.64	6.71	6.80	7.06	7.04	7.40	7.45	7.51	7.65	8.04	8.13
21 FRMF	M SHORT TERM BUSINESS LOA	7.15	7.59	8.10	8.40	8.56	8.74	8.83	9.06	9.21	9.31	9.43	9.71	9.98
22 FRMF	M PASSBOOK SAVINGS RATE--	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
23 FRMF	M COMP. AAA UTILITY BOND	8.27	8.23	8.29	8.45	8.55	8.66	8.72	8.79	8.87	8.96	9.04	9.23	9.41
24 FRMF	M STATE & LOCAL AAA BOND	5.21	5.27	5.33	5.41	5.45	5.51	5.55	5.60	5.65	5.70	5.74	5.91	6.06
25 FRMF	M RINDY'S TOTAL CORP BOND	6.45	6.80	6.51	6.62	6.68	6.76	6.84	6.91	6.99	7.07	7.17	7.34	7.50
26 FRMF	M U.S. GOVT LONG TERM BON	7.10	7.00	7.01	7.08	7.13	7.20	7.26	7.32	7.39	7.45	7.52	7.63	7.75
27 FRMF	F REDISCOUNT RATE (FRB-NE	5.25	5.40	5.90	6.00	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
29														
30 FLITCS	M STOCK OF COMMERCIAL BAN	180.3	193.4	199.1	205.8	211.8	217.6	223.5	229.3	235.5	242.4	248.7	256.8	264.6
31														
32 FRES*	E MINIMUM RESERVES-----	34.4	35.8	36.1	36.6	37.1	37.6	38.2	38.7	39.4	40.1	40.8	41.5	42.2
33														
34 FREFS*	M FREE RESERVES-----	-0.0	-0.2	-0.6	-0.7	-0.9	-1.0	-1.2	-1.1	-1.2	-1.3	-1.4	-1.4	-1.6
35														
36 FCCITCS	M CHANGE IN INSTALLMENT C	30.3	27.5	24.8	25.1	23.7	22.0	19.7	18.6	16.8	16.0	14.9	13.7	12.3
37 FCCITCS	I STOCK OF CONSUMER CREDI	193.9	200.7	206.9	213.2	219.1	224.6	229.6	234.2	238.8	242.8	246.1	249.6	252.6

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THE MONTHLY QUARTERLY MODEL MARK 4,6
SPECIAL UNR FORECAST, OCTOBER 1977

TABLE 15.00 MONEY SUPPLY AND INTEREST RATES

LINE	VAR LABEL	ITEM	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	FM13	MONEY SUPPLY - M1	810.9	820.6	828.4	837.9	847.3	858.8	866.9	876.0	824.7	850.0	875.1	890.9	883.1
2	FM13	% CHANGE MONEY SUPPLY -	9.03	9.02	7.59	9.17	9.47	10.11	7.24	8.52	6.73	7.80	7.19	8.46	8.94
3															
4	FM25	MONEY SUPPLY - M2	982.9	1001.4	1017.4	1035.3	1054.0	1073.6	1089.8	1107.8	777.9	884.5	907.5	914.6	1045.1
5	FM25	% CHANGE MONEY SUPPLY - M2	7.42	7.72	6.56	7.23	7.41	7.66	6.16	6.77	10.53	8.56	7.47	7.19	7.23
6															
7	FCUS	CURRENCY IN CIRCULATION	113.0	115.6	118.2	120.9	123.7	126.5	129.4	132.3	84.6	92.9	101.9	111.7	122.3
8	FORDS	DEMAND DEPOSITS	102.4	104.6	106.7	108.8	110.9	113.0	115.1	117.2	284.5	261.7	277.9	294.4	315.6
9	FORDPS	PRIVATE	297.9	305.1	310.2	317.0	324.2	332.3	337.6	344.3	280.1	257.1	271.3	295.2	320.9
10	FORDGS*	GOVERNMENT	4.5	4.5	4.5	5.0	4.5	4.5	4.5	5.0	4.4	4.6	4.6	4.6	4.6
11	FDATS	TIME DEPOSITS	656.5	668.7	680.5	692.9	705.7	718.8	731.4	744.1	516.1	559.7	604.6	650.7	697.5
12	FDATDS	SAVINGS DEPOSITS	572.0	580.7	589.0	597.4	606.1	614.8	622.9	631.2	453.2	494.5	532.4	567.8	601.8
13	FDATCS	CERTIFICATES OF DEPOSIT	84.5	87.9	91.5	95.4	99.6	104.0	108.5	113.6	62.9	65.2	72.3	81.0	97.6
14															
15		MONEY MARKET RATES													
16	FRMFF	FEDERAL FUNDS RATE	9.11	9.28	9.53	9.63	9.68	9.89	10.27	10.30	5.09	7.42	8.20	9.08	9.68
17	FRMTRNY	3 MONTH TREASURY BILLS	8.05	8.12	8.37	8.36	8.35	8.44	8.70	8.71	5.46	6.05	7.43	8.05	8.58
18	FRMCPM	PRIME COMM PAPER - 90 DAY	8.31	8.40	8.60	8.73	8.74	8.85	9.22	9.23	5.67	6.08	7.59	8.29	8.75
19	FRMPHNE	PRIME RATE FOR LARGE BUS	9.91	10.01	10.25	10.39	10.47	10.56	10.88	11.03	6.08	6.37	9.02	9.01	10.42
20	FRMCDSSM	CD RATE - 3 MONTH, SECONDARY	8.17	8.25	8.50	8.52	8.55	8.66	8.98	8.97	5.63	6.90	7.58	8.15	8.56
21	FRMSSJS	SHORT TERM BUSINESS LOAN	10.07	10.18	10.40	10.55	10.65	10.77	11.05	11.23	7.51	8.63	9.25	9.97	10.59
22	FRMPSDE	PASSBOOK SAVINGS RATE	5.00	5.20	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
23	FRMCHAAA	CORP. AAA UTILITY BOND	9.57	9.73	9.90	10.10	10.23	10.35	10.49	10.64	8.24	8.60	8.92	9.49	10.14
24	FRMCHSAAA	STATE & LOCAL AAA BOND	6.18	6.33	6.48	6.64	6.77	6.90	7.03	7.17	5.24	5.48	5.68	6.12	6.70
25	FRMCS	MORTGAGE TOTAL COMP BOND	9.71	9.89	10.08	10.28	10.44	10.59	10.74	10.89	8.46	8.73	9.03	9.62	10.35
26	FRMGNFL	U.S. GOVT LONG TERM BOND	7.86	7.98	8.10	8.23	8.38	8.45	8.57	8.68	7.03	7.17	7.42	7.80	8.28
27															
28	FRMNDY	REDISCOUNT RATE (FPM-ME)	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	5.45	6.19	6.25	6.25	6.25
29															
30	FLITCS	STOCK OF COMMERCIAL BANK	271.6	279.3	287.5	295.7	304.1	313.2	322.8	331.9	190.9	214.6	239.0	268.1	300.1
31															
32	FRMNSA	UNIMMATURED RESERVES	83.0	83.8	84.7	85.5	86.4	87.3	88.1	88.9	35.3	37.4	39.7	42.6	46.0
33															
34	FRMNSA	FREE RESERVES	-1.6	-1.7	-1.6	-1.7	-1.8	-2.0	-2.0	-2.1	-0.2	-1.0	-1.3	-1.6	-1.8
35															
36	FRMNSA	CHANGE IN INSTALLMENT C	12.8	12.8	12.5	12.1	12.9	13.4	14.1	14.7	27.3	22.6	16.6	12.9	12.7
37	FRMNSA	STOCK OF CONSUMER CREDIT	255.9	259.1	262.2	265.2	268.4	271.8	275.3	279.0	197.0	221.6	240.3	258.3	266.9

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THE MANHATTON QUARTERLY MODEL MARK 4.6 SPECIAL UMR FORECAST, OCTOBER 1977

LINE VAR LABEL		TABLE 14.00 SECTOR DEFATIONS											
		TITLE											
		1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2											
1	PXAG	142.91	130.1	131.0	130.2	132.0	133.6	136.2	128.4	131.4	130.7	130.8	145.7
2	PXMG	228.71	250.5	256.5	285.8	291.8	298.0	304.2	331.0	336.8	343.2	350.5	402.6
3	PXMF	138.91	140.5	142.2	144.1	146.0	147.9	149.6	151.6	153.6	155.6	161.7	168.8
4	PXFN	139.01	140.8	142.6	144.9	147.2	149.5	151.7	154.2	156.8	159.4	162.0	168.4
5	PXFM	134.61	140.1	141.6	143.0	144.2	145.3	146.3	148.0	149.7	151.5	153.3	158.9
6	PXRG	134.71	137.1	138.7	140.6	142.4	144.1	145.9	147.8	149.7	151.4	153.2	157.5
7	PXRT	135.41	137.1	138.5	140.7	142.9	144.9	146.9	148.9	150.9	152.9	154.8	158.8
8	PXGC48	115.41	116.3	117.0	117.6	118.3	118.9	119.3	119.8	120.2	120.6	121.0	125.2
9	PXGU49	163.01	167.5	171.0	174.5	177.4	180.4	183.9	187.7	191.4	195.0	197.7	200.8
10	PXCM	138.51	141.1	142.8	144.8	146.7	148.5	150.2	152.3	154.1	156.4	158.5	163.3
11	PXCC	139.41	144.4	146.0	151.4	153.4	155.6	157.9	160.7	163.4	166.1	169.0	175.9
12	PXFI	126.91	128.4	129.4	130.8	132.4	134.3	136.2	138.4	140.6	142.8	144.9	149.5
13	PXSV	142.51	145.7	148.5	150.5	152.5	154.3	156.1	157.9	159.9	161.8	163.9	168.3
14	PXVR	146.11	148.7	150.3	151.8	153.5	155.4	157.1	159.1	160.9	162.9	164.8	169.5
15	PXGV	141.11	142.8	147.2	149.0	150.4	151.8	153.9	157.3	158.8	160.3	161.6	167.5
16	PXNCVG	130.41	140.1	144.5	146.1	147.2	148.3	152.4	153.5	154.6	155.7	160.0	162.1
17	PXNCVFG	134.91	135.9	145.2	146.1	147.0	148.0	150.1	150.8	151.9	153.0	154.1	173.7
18	PXNCVSG	140.21	142.2	144.2	146.0	147.2	148.4	149.6	150.8	152.0	153.2	154.4	156.8
19	PXGE	162.71	164.9	168.9	172.9	177.1	181.4	185.0	190.2	194.8	199.5	204.3	214.3
20	PXNW	232.91	238.7	241.2	243.7	246.3	248.8	251.4	254.1	256.7	259.4	262.1	267.6

THE MANHATTON QUARTERLY MODEL MARK 4.6 SPECIAL UMR FORECAST, OCTOBER 1977

LINE VAR LABEL		TABLE 14.00 SECTOR DEFATIONS											
		TITLE											
		1980.3 1980.4 1981.1 1981.2 1981.3 1981.4 1982.1 1982.2 1982.3 1982.4 1983.1 1983.2 1983.3											
1	PXAG	145.7	149.6	149.7	152.1	153.3	157.1	157.0	159.41	136.7	133.0	134.3	153.1
2	PXMG	405.9	414.7	434.0	442.5	451.1	459.8	481.2	490.51	237.1	298.9	348.4	446.8
3	PXMF	167.8	170.7	173.6	176.6	179.6	182.7	185.8	188.91	139.5	146.9	155.2	178.1
4	PXFN	171.8	175.0	178.3	181.5	184.9	188.2	191.6	195.01	139.9	148.3	158.1	183.2
5	PXFM	161.4	163.7	166.1	168.5	171.0	173.4	176.0	178.51	138.8	144.7	150.6	169.7
6	PXRG	154.5	161.6	163.0	166.1	168.4	170.9	173.4	176.11	135.9	143.3	150.7	167.3
7	PXRT	160.9	163.2	165.6	168.1	170.6	173.2	175.9	178.51	136.2	143.9	151.9	169.4
8	PXGC48	126.5	127.8	129.2	130.7	132.2	133.8	135.3	136.91	115.9	118.5	121.1	131.5
9	PXGU49	205.9	208.8	211.7	214.7	217.8	221.2	225.0	229.21	165.1	170.1	172.9	214.4
10	PXCM	165.4	167.9	170.4	173.0	175.6	178.3	181.2	184.11	139.6	147.4	155.4	174.3
11	PXCC	179.2	182.3	186.2	189.5	193.0	196.5	200.0	204.61	142.0	154.6	164.8	191.3
12	PXFI	151.6	153.9	156.3	158.8	161.3	163.9	166.6	169.31	142.5	153.4	161.7	180.1
13	PXSV	171.0	173.5	176.3	179.5	182.0	184.1	186.1	188.11	147.3	153.3	160.9	181.2
14	PXVR	171.6	173.5	175.5	177.5	179.7	181.9	184.2	186.41	147.0	154.4	161.9	178.6
15	PXGV	169.0	173.6	175.0	176.5	178.0	182.8	184.3	185.81	142.6	151.8	160.2	178.1
16	PXNCVG	163.2	167.7	168.8	169.9	170.9	175.6	176.7	177.71	140.0	148.5	155.9	171.3
17	PXNCVFG	174.6	186.4	187.3	189.2	189.2	201.6	202.7	203.61	137.6	149.8	162.9	191.6
18	PXNCVSG	158.0	159.2	160.4	161.6	162.8	164.0	165.2	166.41	141.2	147.8	152.6	162.2
19	PXGE	219.5	224.8	230.2	235.7	241.4	247.3	253.2	259.31	163.8	179.3	197.2	238.7
20	PXNW	270.4	273.3	276.1	279.0	281.9	284.9	287.9	290.91	235.3	247.6	259.1	280.5

TABLE 14. 10 PERCENT CHANGE IN SECTION INFLATIONS

[illegible]

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TABLE 14.10 PERCENT CHANGE IN SECTOR DEFLATORS

LINE	VAR	LABEL	TITLE	1900.3	1900.4	1901.1	1901.2	1901.3	1901.4	1902.1	1902.2	1977	1978	1979	1980	1981
1	PRAG	AGRICULTURE		0.17	11.04	-0.28	6.47	3.11	10.39	-0.38	6.391	-4.56	-2.73	1.00	7.90	5.60
2	PRMG	MINING		3.32	0.96	19.96	0.07	0.00	7.94	19.96	7.961	10.20	24.39	15.40	10.65	10.65
3	PRWF	MANUFACTURING		7.53	7.11	7.08	7.03	7.01	6.92	6.97	6.851	5.21	5.33	5.64	7.12	7.15
4	PRWF	MANUFACTURING	MINERAL	0.14	7.70	7.57	7.55	7.57	7.44	7.40	7.371	5.21	6.02	6.58	7.61	7.70
5	PRWF	MANUFACTURING	MINOR	6.39	5.85	6.07	5.98	5.90	5.88	6.05	5.791	5.36	4.21	4.11	6.07	6.07
6	PRWF	REGULATIONS		5.24	5.07	5.55	5.62	5.75	5.95	6.15	6.341	6.43	5.41	5.21	5.19	5.51
7	PRGT	TRANSPORTATION		5.49	5.08	5.94	6.02	6.18	6.26	6.22	6.181	6.18	5.65	5.58	5.30	5.91
8	PRGCB	COMMUNICATIONS		4.15	4.30	4.53	4.60	4.73	4.78	4.84	4.811	1.05	2.30	2.17	3.92	4.46
9	PRGUA	UTILITIES		5.72	5.77	5.65	5.75	5.91	6.38	7.03	7.661	13.16	8.45	7.76	6.07	5.72
10	PRCM	COMMERCIAL		5.91	5.62	5.98	6.22	6.28	6.32	6.59	6.531	5.61	5.57	5.34	5.82	6.02
11	PRCC	CONTRACT CONSTRUCTION		7.79	7.14	8.62	7.36	7.44	7.45	9.12	7.781	5.84	8.84	6.60	7.67	7.82
12	PRFI	FINANCIAL, INSURANCE		5.83	6.12	6.38	6.61	6.33	6.67	6.84	6.811	3.92	4.65	6.17	6.32	6.32
13	PRSV	SERVICES		6.64	6.07	6.50	7.40	7.73	7.29	7.17	7.351	6.09	6.27	4.91	5.46	6.79
14	PRXM	WHOLESALE & RETAIL TRADE		4.52	4.57	4.75	4.75	4.88	4.99	5.26	5.311	6.75	5.10	4.59	5.28	4.78
15	PRGV	GOVERNMENT		3.58	11.24	3.45	3.45	3.44	11.18	3.33	3.331	7.29	6.44	5.59	5.48	5.36
16	PRHCVG	FEDERAL GOVERNMENT		2.70	11.54	2.56	2.55	2.53	11.49	2.41	2.401	6.50	6.05	5.01	4.88	4.75
17	PRHCVG	STATE AND LOCAL		2.12	30.01	1.96	1.95	1.94	29.61	1.80	1.791	6.84	8.83	8.76	8.56	8.35
18	PRHCVG	FEDERAL GOVERNMENT		3.09	3.06	3.04	3.02	2.99	2.97	2.95	2.931	6.32	4.72	3.24	3.14	3.04
19	PRGE	GOVERNMENT EMPLOYEES		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.001	13.35	9.89	10.00	10.00	10.00
20	PRPM	WEST VIRGINIA		4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.251	9.48	5.19	4.25	4.25	4.25

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THE WHARTON UNIVERSITY MODEL MARK 4.6
SPECIAL UNM FORECAST: OCTOBER 1977

LINE VAR LABEL		TABLE 15.00 FINAL DEMAND AND WHOLESALE PRICES												1980.1 1980.2	
		1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2	1980.3
1	PGMNP	140.51	142.7	148.0	147.1	149.0	150.9	153.1	155.2	157.3	159.6	162.0	165.0	167.7	170.4
2	PGMNP	7.101	6.29	6.14	6.57	5.14	5.07	5.98	5.64	5.52	6.01	6.20	7.54	6.64	6.64
3	PP	140.81	143.0	148.9	147.3	149.2	151.2	153.1	155.4	157.6	160.0	162.4	165.4	168.3	171.2
4	PP	7.411	6.44	5.32	6.45	5.39	5.31	5.34	5.90	5.83	6.34	5.59	8.11	7.09	7.09
5															
6	PCA	180.71	183.6	186.0	189.1	191.7	194.4	197.1	200.0	203.0	206.4	209.3	213.2	216.9	220.6
7	PCFA	192.11	195.7	197.8	198.7	201.9	206.3	207.9	209.9	212.5	218.2	220.2	223.7	228.2	232.4
8	PCSA	192.41	196.7	200.6	203.7	207.0	209.6	212.9	215.9	219.1	222.2	225.5	228.6	232.4	236.4
9	PCSR	152.21	158.6	157.3	159.7	162.1	164.2	166.5	168.9	171.4	173.8	176.2	178.6	181.0	183.4
10															
11	WHOLESALE PRICE INDEX	194.61	194.9	196.4	200.6	204.4	208.0	211.0	213.9	217.6	221.0	225.0	229.5	234.1	238.6
12	WHOLESALE PRICE INDEX	221.91	211.2	208.9	214.9	219.3	221.6	221.3	220.4	224.6	228.0	231.0	234.0	237.4	240.6
13	WHOLESALE PRICE INDEX	201.71	203.6	206.1	211.0	215.6	220.3	224.3	228.5	232.7	236.5	240.8	245.1	249.8	254.7
14	WHOLESALE PRICE INDEX	175.91	182.4	184.3	188.0	191.3	194.9	198.4	201.6	205.1	209.9	213.3	217.8	222.0	226.4
15	WHOLESALE PRICE INDEX	182.41	184.6	187.7	190.9	193.5	196.7	200.7	204.8	208.3	212.2	216.0	220.4	224.9	229.4
16	WHOLESALE PRICE INDEX	178.71	188.3	182.2	185.7	188.8	192.1	195.2	197.4	201.1	204.9	208.8	213.0	217.0	221.0
17	WHOLESALE PRICE INDEX	189.81	191.3	192.8	195.8	198.4	200.4	202.2	204.3	206.9	210.1	212.1	215.9	219.4	223.0
18	WHOLESALE PRICE INDEX	185.81	187.9	190.1	193.5	197.0	200.5	203.8	207.4	210.9	215.0	218.4	223.0	227.1	231.1
19	WHOLESALE PRICE INDEX	193.31	194.3	194.8	198.4	203.1	207.2	210.1	212.7	216.2	221.7	225.0	229.5	234.1	238.6
20	WHOLESALE PRICE INDEX	139.81	142.0	143.6	145.7	147.6	149.5	151.3	153.3	155.4	157.7	159.4	162.5	165.0	167.5
21	WHOLESALE PRICE INDEX	124.51	130.8	131.3	132.5	133.6	134.6	135.4	136.8	137.9	139.0	140.1	141.4	143.3	145.1
22	WHOLESALE PRICE INDEX	135.91	137.8	138.4	140.0	141.6	142.8	143.8	145.7	147.5	149.0	150.4	152.4	154.1	155.1
23	WHOLESALE PRICE INDEX	127.31	128.6	129.3	131.0	132.6	133.7	134.7	136.6	138.5	139.8	141.2	143.6	146.1	148.1
24	WHOLESALE PRICE INDEX	150.51	160.2	161.0	162.5	163.8	165.1	166.3	168.1	169.6	171.1	172.7	175.1	177.1	179.1
25	WHOLESALE PRICE INDEX	127.31	128.6	130.2	131.8	133.4	135.0	136.7	138.4	140.1	141.8	143.6	145.3	147.1	149.1
26	WHOLESALE PRICE INDEX	127.41	128.6	130.2	131.8	133.4	135.0	136.7	138.4	140.1	141.8	143.6	145.3	147.1	149.1
27	WHOLESALE PRICE INDEX	125.91	124.9	125.3	126.2	126.9	127.6	128.1	129.0	129.7	130.4	131.1	132.2	133.0	134.0
28	WHOLESALE PRICE INDEX	125.11	126.4	127.0	128.1	129.0	130.0	131.0	132.3	133.6	134.9	136.3	138.2	140.0	141.8
29	WHOLESALE PRICE INDEX	143.81	145.1	146.4	148.2	149.8	151.4	152.9	154.2	156.1	158.5	160.2	162.9	165.6	168.3
30	WHOLESALE PRICE INDEX	121.91	122.9	123.5	124.3	124.9	125.6	126.2	127.1	128.1	129.1	130.1	131.6	133.0	134.0
31	WHOLESALE PRICE INDEX	147.21	148.4	149.6	151.4	153.5	155.6	157.8	159.4	161.2	164.6	166.7	169.4	173.2	177.0
32	WHOLESALE PRICE INDEX	173.31	178.4	180.2	185.1	187.2	189.4	191.5	194.0	196.1	200.4	202.8	204.9	212.4	216.4
33	WHOLESALE PRICE INDEX	145.61	147.4	148.4	150.1	151.1	152.2	153.2	154.9	156.1	157.4	158.6	161.1	162.7	164.7
34	WHOLESALE PRICE INDEX	140.11	143.3	145.6	148.4	150.8	153.3	155.7	158.6	161.2	164.6	166.6	169.6	172.3	175.1
35	WHOLESALE PRICE INDEX	129.61	131.9	133.7	135.9	138.1	140.5	142.9	145.5	148.1	150.8	153.4	156.2	159.9	163.6
36	WHOLESALE PRICE INDEX	142.21	148.9	151.2	154.3	156.3	158.2	160.4	163.4	165.5	167.8	170.0	173.3	175.2	179.2
37	WHOLESALE PRICE INDEX	138.31	142.1	145.1	148.8	151.9	155.1	158.3	162.0	165.2	168.4	171.8	175.9	179.2	183.4
38	WHOLESALE PRICE INDEX	147.61	151.3	154.1	157.0	159.7	162.3	164.8	167.7	170.4	173.1	176.0	178.8	181.8	184.8
39	WHOLESALE PRICE INDEX	148.41	146.9	148.0	151.6	153.7	155.8	157.9	160.6	163.5	167.9	171.7	174.8	178.0	181.0
40	WHOLESALE PRICE INDEX	137.71	140.1	142.0	145.1	147.2	149.3	151.4	154.1	156.5	159.1	161.5	165.6	168.8	172.0
41	WHOLESALE PRICE INDEX	159.71	162.8	164.9	167.4	169.6	171.9	174.1	176.7	179.2	181.7	184.3	187.2	190.1	193.0
42	WHOLESALE PRICE INDEX	152.61	162.2	165.4	170.9	175.0	178.9	182.4	186.0	190.4	194.0	197.6	202.7	206.6	210.6
43	WHOLESALE PRICE INDEX	150.21	162.9	166.4	171.6	175.6	179.6	183.1	187.5	191.1	194.8	198.4	203.4	207.4	211.4
44															
45	WHOLESALE PRICE INDEX	180.81	184.0	186.8	190.8	193.8	196.8	199.8	203.2	206.5	210.2	213.4	218.6	222.9	227.9
46	WHOLESALE PRICE INDEX	210.61	214.2	217.9	221.9	226.2	229.9	233.8	238.1	242.7	247.4	251.9	256.5	260.9	265.4
47	WHOLESALE PRICE INDEX	207.41	210.4	213.5	216.6	219.8	223.0	226.6	230.2	233.8	237.5	241.0	244.5	248.0	251.5
48															
49	WHOLESALE PRICE INDEX	144.61	146.9	150.4	152.7	154.5	156.2	159.6	161.5	163.4	165.5	169.1	171.7	174.0	176.4
50	WHOLESALE PRICE INDEX	142.01	143.9	149.2	150.9	152.3	153.8	159.5	160.9	162.5	164.4	170.4	172.7	174.7	176.7
51	WHOLESALE PRICE INDEX	142.81	150.7	152.6	154.9	156.7	158.6	160.6	162.3	164.5	169.2	172.6	175.5	178.4	181.3
52	WHOLESALE PRICE INDEX	140.21	148.8	151.2	153.8	155.8	157.7	159.7	161.9	164.0	166.2	168.3	171.1	173.6	176.1
53	WHOLESALE PRICE INDEX	150.51	157.7	160.6	164.4	167.3	170.3	173.2	176.6	179.4	183.4	186.5	191.4	195.5	199.6
54	WHOLESALE PRICE INDEX	508.31	591.7	593.3	596.5	611.1	613.0	616.0	624.9	633.4	636.3	639.0	645.0	649.0	653.0
55	WHOLESALE PRICE INDEX	474.01	480.3	485.8	487.1	493.5	497.5	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6
56	WHOLESALE PRICE INDEX	7.741	5.93	6.01	6.13	6.23	6.32	6.41	6.49	6.55	6.61	6.68	6.74	6.81	6.88

THE WHARTON QUARTERLY MODEL MARK 4.0 SPECIAL UNR FORECAST, OCTOBER 1977

LINE VAR LABEL		TABLE 15.00 FINAL DEMAND AND WHOLESALE PRICES																		
		J I E M		1980,3		1980,4		1981,1		1981,3		1981,4		1982,2		1977	1978	1979	1980	1981
1	PDGMP	GROSS NATIONAL PRODUCT--																		
2	PDGMP	I & CMC GROSS NATIONAL P																		
3	XP	PRIVATE GROSS NATIONAL																		
4	XP	I & CMC PVT GROSS NATL P																		
5																				
6	PCA	CONSUMER PRICE INDEX, A																		
7	PCFA	A FIRM--																		
8	PCFA	B SERVICES--																		
9	PCFA	C RENT--																		
10		WHOLESALE PRICE INDEX																		
11	PMA	A ALL COMMODITIES--																		
12	PMPA	B CRUDE MATERIAL--																		
13	PMPA	C INFLUENTIAL MATERIAL																		
14	PMPA	D FINISHED OUTPUT--																		
15	PMPA	E PRODUCERS FINISHED																		
16	PMPA	F CONSUMERS FINISHED																		
17	PMPA	G TOTAL MANUFACTURING--																		
18	PMPA	H PFC FINISHABLES--																		
19	PMPA	I HFC FINISHABLES--																		
20	POCE	J PERSONAL CONSUMPTION EX																		
21	POCE	K DURABLES--																		
22	POCE	L AUTOS AND PARTS--																		
23	POCE	M NEW AUTOS-- FIRM & DO																		
24	POCE	N USED CARS/PARTS/ACCE																		
25	POCE	O RECREATIONAL VEHICLE																		
26	POCE	P TRUCKS--																		
27	POCE	Q FURNITURE & HOUSEHOLD																		
28	POCE	R OTHER DURABLES--																		
29	POCE	S CLOTHING & SHOES--																		
30	POCE	T FOOD & BEVERAGES--																		
31	POCE	U GASOLINE & OIL--																		
32	POCE	V OTHER NONDURABLES--																		
33	POCE	W SERVICES--																		
34	POCE	X HOUSING--																		
35	POCE	Y HOUSEHOLD OPERATION--																		
36	POCE	Z TRANSPORTATION--																		
37	POCE	A OTHER SERVICES--																		
38	POCE	B NONRESIDENTIAL FIXED IN																		
39	POCE	C DURABLE EQUIPMENT--																		
40	POCE	D STRUCTURES--																		
41	POCE	E RESIDENTIAL STRUCTURES--																		
42	POCE	F NONFARM--																		
43	POCE																			
44	POCE																			
45	POCE																			
46	POCE																			
47	POCE																			
48	POCE																			
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52	POCE																			
53	POCE																			
54	POCE																			
55	POCE																			

THE MONTHLY QUARTERLY MODEL MARK 9.0 SPECIAL ONK FORECAST, OCTOBER 1977

LINE VAR LABEL		TABLE 15.10 PERCENT CHANGE IN FINAL DEMAND AND WHOLESALE PRICES														
		1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2														
1	PC	U	CONSUMER PRICE INDEX, A	8.87	6.71	5.25	6.75	5.83	5.72	5.65	5.98	6.21	6.70	5.84	7.71	7.07
2	PCCF	B	FOOD	12.32	7.78	0.15	6.19	6.62	8.94	3.15	3.84	4.98	11.22	3.81	6.49	8.30
3	PCS	B	SERVICES	8.07	9.26	8.06	6.37	6.56	5.74	5.87	5.83	5.94	5.78	6.14	5.60	6.72
4	PCSH	B	RENT	5.67	6.38	7.16	6.21	6.06	5.49	5.73	5.82	5.91	5.83	5.52	5.69	5.42
5																
6	PM	H	WHOLESALE PRICE INDEX	10.19	0.49	3.17	0.76	7.03	7.32	5.94	5.56	7.00	10.28	5.17	8.94	8.26
7	PMCA	B	ALL COMMODITIES	14.07	18.05	-8.21	11.94	8.57	4.16	-0.52	-1.52	7.75	15.83	-5.08	13.44	12.80
8	PMPI	B	CRUDE MATERIAL	10.79	3.78	5.01	9.89	9.03	8.91	7.57	7.59	7.62	10.29	7.50	8.92	7.71
9	PMPP	B	INTERMEDIATE MATERIAL	8.18	4.75	5.34	8.28	7.17	7.66	7.31	6.75	7.12	9.73	6.50	8.76	7.99
10	PMFPA	B	FINISHED OUTPUT	4.62	5.09	6.77	7.11	5.43	6.89	8.28	8.54	7.02	7.51	7.48	8.90	7.63
11	PMFPA	B	PRODUCERS FINISHED	9.56	3.57	4.24	7.91	6.94	7.24	6.48	5.74	6.62	9.88	5.75	8.34	7.63
12	PMFCA	B	CONSUMERS FINISHED	9.76	3.19	3.11	6.38	5.52	4.09	3.57	4.33	5.09	6.29	4.00	7.27	7.14
13	PMFPA	B	TOTAL MANUFACTURING	4.96	4.60	4.04	7.30	7.40	7.31	6.82	7.25	6.95	8.02	7.23	7.95	7.44
14	PMFPA	B	MFG DURABLES	13.20	2.00	1.09	7.60	9.08	8.25	5.73	5.12	6.78	10.38	6.27	8.16	8.56
15	PMFPA	B	MFG NONDURABLES	5.63	6.40	4.71	6.01	5.26	5.13	5.06	5.35	5.63	6.05	5.31	6.88	6.43
16	PMFPA	B	PERSONAL CONSUMPTION EX	0.62	3.99	1.69	3.78	3.35	2.88	2.38	4.08	3.51	3.17	3.14	5.04	4.24
17	PMFPA	B	DURABLES	-0.59	5.49	1.76	4.69	4.58	3.41	3.02	5.35	4.96	4.02	6.54	6.12	6.97
18	PMFPA	B	AUTOS AND PARTS	3.17	4.10	2.29	5.12	5.18	3.42	2.96	5.76	5.56	3.94	3.90	7.14	6.97
19	PMFPA	B	NEW AUTOS - FIRM + OO	-5.13	4.26	1.94	3.90	3.27	3.27	2.74	4.42	3.59	3.74	3.81	5.59	4.64
20	PMFPA	B	USED CARS+PARTS+ACCE	3.25	4.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
21	PMFPA	B	RECREATIONAL VEHICLE	3.18	4.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
22	PMFPA	B	TRUCKS	2.62	3.18	1.41	2.85	2.15	2.19	1.67	2.79	2.15	2.28	2.05	3.60	2.47
23	PMFPA	B	FURNITURE & HOUSEHOLD	0.94	4.25	1.85	3.41	3.03	3.20	2.67	4.27	3.81	4.09	4.24	5.71	5.14
24	PMFPA	B	OTHER DURABLES	6.64	3.64	3.69	5.00	4.23	4.38	4.22	3.38	4.92	6.28	4.34	6.96	6.78
25	PMFPA	B	NONDURABLES	2.67	3.39	1.81	2.63	2.15	2.27	1.95	2.85	2.90	1.35	3.08	4.68	4.29
26	PMFPA	B	CLOTHING & SHOES	9.99	1.56	4.91	5.02	5.67	5.73	5.77	2.04	6.54	8.83	5.22	6.66	9.09
27	PMFPA	B	FOOD & BEVERAGES	6.23	12.28	4.13	11.36	4.60	4.84	4.46	9.73	4.43	4.55	5.02	14.62	5.66
28	PMFPA	B	GASOLINE & OIL	3.68	5.25	2.62	4.73	2.79	2.90	2.56	4.59	3.08	3.39	3.16	6.88	4.00
29	PMFPA	B	OTHER NONDURABLES	6.84	9.42	6.74	7.70	6.82	6.56	6.67	7.43	6.86	6.80	6.77	7.31	6.72
30	PMFPA	B	SERVICES	6.42	7.45	5.31	6.74	6.76	6.98	7.10	7.41	7.53	7.88	7.05	7.35	7.20
31	PMFPA	B	HOUSING	1.47	10.51	6.51	8.47	5.17	4.94	5.60	7.78	5.24	5.57	5.39	6.03	4.59
32	PMFPA	B	HOUSEHOLD OPERATIONS	8.21	11.54	8.77	10.46	8.69	8.40	8.59	9.66	8.15	8.03	8.43	9.68	7.88
33	PMFPA	B	TRANSPORTATION	8.55	9.83	7.58	7.74	7.19	6.53	6.45	7.01	6.69	6.54	6.73	6.63	6.87
34	PMFPA	B	OTHER SERVICES	5.44	7.07	5.21	7.08	5.63	5.62	5.40	6.95	6.01	6.60	5.90	9.41	7.30
35	PMFPA	B	NONRESIDENTIAL FIXED I	5.56	7.08	5.46	9.12	6.01	5.87	5.57	7.49	6.22	6.98	6.01	10.69	7.78
36	PMFPA	B	DURABLE EQUIPMENT	8.16	8.05	5.13	6.27	5.41	5.50	5.31	5.99	5.69	5.86	5.70	6.62	6.23
37	PMFPA	B	STRUCTURES	10.54	12.29	9.03	12.98	9.84	9.25	8.16	10.01	7.87	7.84	7.56	10.63	8.06
38	PMFPA	B	RESIDENTIAL STRUCTURES	10.50	12.29	9.03	12.98	9.84	9.25	8.16	10.01	7.87	7.84	7.56	10.63	8.06
39	PMFPA	B	NONRESIDENTIAL STRUCTURES													
40																
41	PMFPA	B	EXPENSES	11.62	7.34	6.09	8.85	6.48	6.32	6.32	6.90	6.63	7.49	6.18	10.13	8.12
42	PMFPA	B	IMPORTS	7.14	7.01	7.01	7.50	8.10	6.70	7.00	7.50	8.00	8.00	7.50	7.50	7.00
43																
44	PMFPA	B	GOVT PURCH OF GOODS & S	6.62	6.53	9.93	6.21	4.68	4.70	8.92	4.78	4.88	5.27	8.86	6.30	5.46
45	PMFPA	B	FEDERAL	4.04	5.35	15.71	4.59	3.81	4.00	15.51	3.50	4.14	4.73	15.31	5.60	4.74
46	PMFPA	B	EXCLUDING COMPENSATION	6.36	5.23	5.34	6.11	4.63	4.95	5.04	4.54	5.53	6.54	4.89	8.41	6.78
47	PMFPA	B	STATE & LOCAL	8.08	7.25	6.50	7.20	5.20	5.12	5.12	5.51	5.32	5.59	5.14	6.73	5.90
48	PMFPA	B	EXCLUDING COMPENSATION	9.80	8.56	7.49	9.78	7.38	7.17	7.16	8.02	7.49	8.10	7.08	10.82	8.80
49																
50	PMFPA	B	END OF PRICES PAID BY F	10.18	-8.56	1.09	2.17	10.16	1.25	1.97	5.91	5.55	1.84	1.71	3.81	1.25
51	PMFPA	B	PRICES RECEIVED BY FARM	6.74	-25.55	-4.03	1.20	5.99	3.66	0.09	-10.47	5.63	17.03	-5.13	3.58	10.83
52	PMFPA	B	AVG PRICE OF NEW CARS	-2.62	10.95	5.70	8.27	6.80	5.99	5.18	4.52	4.31	4.14	4.22	3.79	4.24

TABLE 15.10 PERCENT CHANGE IN FINAL DEMAND AND WHOLESALE PRICES

TABLE 1. T. M.																	
1960,3 1960,4 1961,1 1961,2 1961,3 1961,4 1962,1 1962,2 1977 1978 1979 1980 1981																	
H CONSUMER PRICE INDEX, A																	
1	PCA	H	CONSUMER PRICE INDEX, A	5.94	6.28	6.53	6.63	6.51	6.76	7.12	6.90	6.63	6.22	6.00	6.71	6.47	
2	PCCFA	H	FIND--	8.73	3.00	6.25	5.74	7.50	3.16	6.51	6.02	6.46	5.82	5.63	6.06	5.92	
3	PCS	H	SERVICES--	7.07	6.61	6.96	7.67	7.93	7.57	7.45	7.57	7.90	7.06	5.91	6.21	7.19	
4	PCSR	H	RENT--	5.84	5.87	5.71	5.97	6.03	6.20	6.27	6.55	6.10	6.22	5.78	5.67	5.86	
5																	
H WHOLESALE PRICE INDEX																	
6	PMA	H	ALL COMMODITIES--	6.45	6.17	7.70	5.74	6.23	5.75	7.46	5.48	6.00	6.20	6.82	7.65	6.61	
7	PMPA	H	CRUDE MATERIAL--	1.06	1.71	9.02	4.24	2.31	0.60	0.95	4.19	4.40	2.41	3.53	7.21	4.57	
8	PMPCA	H	INTERMEDIATE MATERIAL	7.69	7.23	8.06	6.25	7.37	6.94	7.89	5.89	6.69	7.83	8.18	8.25	7.34	
9	PMPJA	H	FINISHED OUTPUT--	7.49	7.20	7.70	6.05	6.95	6.62	7.25	5.69	6.10	6.93	7.47	7.95	7.12	
10	PMPFA	H	PRODUCERS FINISHED	8.34	7.99	7.96	6.17	7.67	7.47	7.42	6.41	6.10	6.38	7.61	7.05	7.71	
11	PMPFA	H	CONSUMERS FINISHED	6.90	6.68	7.32	5.52	6.48	6.13	6.97	5.22	5.90	6.42	6.82	7.51	6.64	
12	PMPFA	H	TOTAL MANUFACTURING--	5.68	5.57	6.41	5.83	5.62	5.38	6.16	5.75	6.06	6.44	6.60	6.07	5.99	
13	PMPFA	H	MFG DURABLES--	7.65	7.27	7.42	6.59	7.04	6.92	7.15	6.21	6.37	6.35	7.23	7.59	7.18	
14	PMPFA	H	MFG NON-DURABLES--	6.85	5.84	7.21	6.29	5.88	5.27	7.25	6.03	5.65	6.45	6.95	7.72	6.55	
15	PDC	I	PERSONAL CONSUMPTION EX	5.50	5.74	5.95	6.11	6.02	6.22	6.51	5.75	5.75	5.48	5.40	6.08	5.94	
16	PDC	I	DURABLES--	3.84	3.61	4.20	4.29	4.03	3.99	4.73	4.61	4.49	2.93	3.29	3.97	4.03	
17	PDCDA	I	AUTOS AND PARTS--	5.27	4.76	6.03	6.33	5.50	5.01	6.46	4.51	4.20	3.64	4.30	5.30	5.63	
18	PDCDAV	H	NEW AUTOS-- FORM + DU	5.36	4.58	6.73	7.34	5.64	4.81	7.28	7.59	4.58	4.00	4.52	5.62	6.03	
19	PDCDAV	H	USED CARS+PARTS+ACCE	4.79	4.42	4.83	4.79	5.00	4.90	5.44	5.20	10.58	2.72	3.61	4.55	4.76	
20	PDCDAV	F	RECREATIONAL VEHICLE	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.73	4.77	5.00	5.00	
21	PDCDAV	L	TRUCKS--	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.73	4.76	5.00	5.00	
22	PDCDAV	A	FURNITURE & HOUSEHOLD	2.26	2.04	2.19	2.14	2.31	2.27	2.62	2.37	2.81	2.32	2.23	2.58	2.20	
23	PDCDAV	B	OTHER DURABLES--	5.24	4.90	5.30	5.46	5.72	5.74	6.23	6.14	3.11	2.94	3.69	4.90	5.32	
24	PDCEN	I	NON-DURABLES--	4.63	5.40	5.21	5.36	5.25	5.73	5.80	5.70	4.74	4.41	4.43	5.81	5.34	
25	PDCEN	H	CLOTHING & SHOES--	3.81	3.58	3.77	4.01	4.14	4.20	4.58	4.56	3.77	2.39	2.65	3.05	3.90	
26	PDCEN	H	FOOD & ALVERAGES--	5.63	7.09	5.61	6.68	6.27	7.34	6.16	6.96	4.18	5.09	5.30	7.00	6.49	
27	PDCEN	H	GASOLINE & OIL--	3.80	4.90	8.51	5.12	5.22	5.02	8.92	5.35	6.87	7.21	5.85	7.20	6.49	
28	PDCEN	H	OTHER NON-DURABLES--	3.23	3.35	4.15	3.60	3.69	3.73	4.74	3.92	5.98	3.60	3.36	4.16	3.69	
29	PDCEN	I	SERVICES--	6.70	6.65	7.02	7.18	7.23	7.27	7.56	7.34	7.17	7.30	6.91	6.89	6.97	
30	PDCEN	H	HOUSING--	6.70	6.77	7.02	7.26	7.09	7.27	7.47	7.37	7.07	6.60	7.27	7.17	7.02	
31	PDCEN	H	HOUSEHOLD OPERATION--	4.79	5.35	6.08	5.81	5.66	6.05	7.09	6.31	6.64	6.66	5.95	5.83	5.51	
32	PDCEN	H	TRANSPORTATION--	7.71	8.10	8.21	7.85	7.90	8.26	8.40	7.76	10.08	9.43	8.68	8.06	8.00	
33	PDCEN	H	OTHER SERVICES--	7.17	6.71	7.11	7.58	7.77	7.48	7.65	7.59	7.52	7.69	6.72	6.76	7.23	
34	PDCEN	I	NONRESIDENTIAL FIXED I	6.06	6.46	7.04	6.58	6.56	6.73	7.49	6.72	5.02	6.26	6.13	7.18	6.66	
35	PDCEN	H	DURABLE EQUIPMENT--	6.18	6.81	7.49	6.77	6.71	6.92	7.86	6.85	6.48	6.61	6.44	6.98	6.00	
36	PDCEN	H	STRUCTURES--	5.86	5.66	6.00	6.11	6.21	6.27	6.65	6.43	6.87	6.07	5.67	6.07	6.00	
37	PDCEN	H	RESIDENTIAL STRUCTURES	7.42	7.21	7.97	7.71	7.32	7.32	8.51	7.73	12.28	10.62	8.72	8.43	7.50	
38	PDCEN	H	NONFARM--	7.42	7.21	7.96	7.21	7.32	7.32	8.51	7.73	12.39	10.62	8.72	8.43	7.50	
39	PDCEN	H	EXPORTS--	6.11	7.16	7.34	6.74	6.53	6.95	7.37	6.66	7.00	7.38	6.67	7.76	6.96	
40	PDCEN	L	IMPORTS--	7.00	7.00	6.50	6.50	6.00	6.00	6.00	6.00	9.41	7.31	7.50	7.40	6.59	
41	PDCEN	I	GOVT PURCH OF GOODS & S	4.54	9.25	4.97	4.81	4.70	9.21	5.11	4.87	6.86	6.64	5.86	6.36	5.94	
42	PDCEN	I	FEDERAL--	3.41	15.94	4.07	4.02	4.06	15.80	4.31	4.16	6.80	7.09	6.76	7.36	6.88	
43	PDCEN	H	EXCLUDING COMPENSATIO	4.71	6.22	5.79	5.66	5.69	6.36	5.67	6.05	6.36	5.38	5.12	6.42	5.80	
44	PDCEN	I	STATE & LOCAL--	5.10	5.40	5.53	5.31	5.23	5.40	5.62	5.32	7.00	6.36	5.32	5.76	5.39	
45	PDCEN	H	EXCLUDING COMPENSATIO	6.88	7.68	7.93	7.37	7.16	7.53	8.02	7.29	7.87	8.24	7.57	8.49	7.57	
46	PDCEN	I	IND OF PRICES PAID BY F	1.87	1.86	1.85	2.46	0.0	1.83	1.82	2.82	4.07	2.93	3.98	2.42	1.70	
47	PDCEN	I	PRICES RECEIVED BY FARM	0.86	2.58	2.56	1.69	1.68	2.51	1.68	2.48	-2.48	0.75	4.48	2.51	2.51	
48	PDCEN	B	AVG PRICE OF NEW CARS--	4.59	4.02	3.98	4.06	4.29	4.20	4.48	4.64	7.22	6.67	4.86	4.15	4.14	
49	PDCEN																

THE WHARTON QUARTERLY MODEL MARK 4.0
SPECIAL QMR FORECAST, OCTOBER 1977

TABLE 16.00 EMPLOYMENT, INCOMES AND WAGES

LINE	VAR LABEL	ITEM	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	NLT	H TOTAL LABOR FORCE----	99,321	99,994	100,499	101,110	101,611	102,110	102,588	103,088	103,588	104,088	104,588	105,088	105,488
2	NLC	L TOTAL CIVILIAN-----	97,191	97,771	98,377	98,980	99,499	99,999	100,477	100,977	101,477	101,977	102,477	102,977	103,477
3	NLTMA25.34	E LABOR FORCE, MALES, 25-54-----	15,811	15,511	15,611	15,711	15,811	15,911	16,011	16,111	16,211	16,311	16,411	16,511	16,611
4	NLM	E MILITARY MANPOWER-----	2,131	2,111	2,111	2,111	2,111	2,111	2,111	2,111	2,111	2,111	2,111	2,111	2,111
5															
6	NRUT	H TOTAL UNEMPLOYMENT RATE-----	7,001	6,999	7,008	7,116	7,077	6,995	6,855	6,779	6,722	6,655	6,555	6,444	6,333
7	NRUTMA25.50	H UNEMPL RT, MALES, 25-54-----	4,331	4,316	4,407	4,566	4,478	4,377	4,300	4,255	4,211	4,166	4,088	4,000	3,911
8	CVNMPUT	I POTENTIAL UNEMPL RATE-----	7,011	6,883	6,779	6,719	6,722	6,662	6,554	6,449	6,345	6,240	6,135	6,030	5,925
9															
10	NPTN	L TOTAL U.S. POPULATION-----	216,611	216,611	217,111	217,511	217,911	218,311	218,711	219,111	219,511	219,911	220,311	220,711	221,111
11	NPT05.15	L U.S. POPN, AGES 5-15 Y-----	41,011	40,511	40,211	40,011	39,711	39,511	39,211	38,911	38,611	38,311	38,011	37,711	37,411
12	NPT16.19	E U.S. POPN, AGES 16-19 Y-----	17,111	17,011	17,011	17,011	17,011	16,911	16,911	16,911	16,911	16,911	16,911	16,911	16,911
13	NPT16+	E U.S. POPN, 16 AND OVER-----	158,511	159,111	159,911	160,511	161,111	161,711	162,211	162,711	163,211	163,711	164,211	164,711	165,211
14															
15		EMPLOYMENT (MILLIONS)													
16	NEHT	I CIVILIAN EMPLOYMENT-----	90,371	90,699	91,400	91,899	92,466	93,004	93,599	94,122	94,655	95,177	95,711	96,222	96,711
17	NEHA	H AGRICULTURE-----	3,331	3,222	3,115	3,008	2,904	2,803	2,703	2,603	2,503	2,403	2,303	2,203	2,103
18	NEHM	I NONAGRICULTURE-----	87,041	87,477	88,285	88,891	89,562	90,201	90,896	91,519	92,152	92,774	93,407	94,030	94,653
19	NEHTT	I EMPL NONAG PAYROLLS-----	81,911	82,433	83,011	83,566	84,133	84,700	85,279	85,858	86,437	87,016	87,595	88,174	88,753
20	NEETNG	H MINING-----	0,951	0,933	0,917	0,900	0,882	0,865	0,848	0,831	0,814	0,797	0,780	0,763	0,746
21	NEETMFD	H MANUFACTURING-----	11,461	11,511	11,611	11,711	11,811	11,911	12,011	12,111	12,211	12,311	12,411	12,511	12,611
22	NEETMNF	H MANUFACTURING, NONDURABLES-----	8,121	8,077	8,099	8,111	8,122	8,133	8,144	8,155	8,166	8,177	8,188	8,199	8,210
23	NEETNG	B REGULATED-----	4,581	4,560	4,543	4,527	4,510	4,493	4,475	4,457	4,439	4,421	4,403	4,385	4,367
24															
25	NEETCC	H CONTRACT CONSTRUCTION-----	3,861	3,848	3,911	3,933	3,966	3,998	4,000	4,003	4,005	4,007	4,010	4,012	4,014
26	NEETFT	H FINANCIAL, INS, REAL-----	4,481	4,522	4,566	4,611	4,655	4,700	4,750	4,800	4,850	4,900	4,950	5,000	5,050
27	NEETSV	H SERVICES-----	15,211	15,433	15,655	15,877	16,100	16,322	16,544	16,766	16,988	17,210	17,432	17,654	17,876
28	NEETMR	H WHOLESALE & RETAIL-----	18,231	18,333	18,433	18,533	18,633	18,733	18,833	18,933	19,033	19,133	19,233	19,333	19,433
29	NEETGV	I GOVERNMENT-----	15,121	15,225	15,325	15,425	15,525	15,625	15,725	15,825	15,925	16,025	16,125	16,225	16,325
30	NEETGVF	E FEDERAL GOVERNMENT-----	2,731	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722
31	NEETGVF	E STATE AND LOCAL-----	12,400	12,503	12,603	12,703	12,803	12,903	13,003	13,103	13,203	13,303	13,403	13,503	13,603
32	NEHNS	E SELF-EMPLOYED-----	6,001	6,008	6,009	6,010	6,011	6,012	6,013	6,014	6,015	6,016	6,017	6,018	6,019
33	NEHNS	E UNPAID FAMILY WORKERS-----	0,521	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500	0,500
34	NEHNS	E CONCESSIONAL DIFFERENCE-----	-1,391	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335	-1,335
35	NEHNS	E LABOR FORCE V. ESTAB. EMP-----													
36															
37		MANHOURS													
38	NMLTPV	I TOTAL MANHOURS: PRIV SE-----	126,711	127,311	128,011	128,711	129,411	130,111	130,811	131,511	132,211	132,911	133,611	134,311	135,011
39	NMLTNG	H MANUFACTURING-----	1,911	1,911	1,911	1,911	1,911	1,911	1,911	1,911	1,911	1,911	1,911	1,911	1,911
40	NMLTNG	B MANUFACTURING, DURABLE-----	24,511	24,511	24,511	24,511	24,511	24,511	24,511	24,511	24,511	24,511	24,511	24,511	24,511
41	NMLTNG	H MANUFACTURING, NONDURABLE-----	16,711	16,711	16,711	16,711	16,711	16,711	16,711	16,711	16,711	16,711	16,711	16,711	16,711
42	NMLTNG	H REGULATED-----	9,611	9,611	9,611	9,611	9,611	9,611	9,611	9,611	9,611	9,611	9,611	9,611	9,611
43															
44	NMLTCC	H CONTRACT CONSTRUCTION-----	7,511	7,511	7,511	7,511	7,511	7,511	7,511	7,511	7,511	7,511	7,511	7,511	7,511
45	NMLTFT	H FINANCIAL, INS, REAL-----	6,511	6,511	6,511	6,511	6,511	6,511	6,511	6,511	6,511	6,511	6,511	6,511	6,511
46	NMLTSV	H SERVICES-----	26,411	26,411	26,411	26,411	26,411	26,411	26,411	26,411	26,411	26,411	26,411	26,411	26,411
47	NMLTMR	H WHOLESALE & RETAIL-----	31,711	31,711	31,711	31,711	31,711	31,711	31,711	31,711	31,711	31,711	31,711	31,711	31,711
48	NMLTGV	I GOVERNMENT-----	31,511	31,511	31,511	31,511	31,511	31,511	31,511	31,511	31,511	31,511	31,511	31,511	31,511

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BEST AVAILABLE COPY

THE MANHATTON QUARTERLY MODEL MARK 4,6
SPECIAL QMR FORECAST, OCTOBER 1977

TIME VAR LABEL		TABLE 16.00 EMPLOYMENT, HOURS AND WAGES														
		1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2		
AVERAGE WEEKLY HOURS																
1	TOTAL PVT. NONAG PAYROL	36.51	36.4	36.5	36.5	36.5	36.5	36.5	36.4	36.4	36.4	36.4	36.4	36.4	36.4	
2	MINING	44.1	44.4	43.6	43.7	43.6	43.6	43.6	43.2	43.1	42.9	42.9	42.8	42.7	42.6	
3	MANUFACTURING: DURABLE	41.0	41.1	41.1	41.2	41.1	41.0	40.9	40.9	40.9	40.9	40.8	40.8	40.8	40.8	
4	MANUFACTURING: NONDUR	39.51	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	
5	REGULATED	40.1	40.2	40.3	40.5	40.6	40.7	40.8	40.9	41.0	41.0	41.0	41.0	41.0	41.1	
6	CONTRACT CONSTRUCTION	37.21	37.4	37.4	37.3	37.1	36.8	36.8	36.3	36.1	36.0	35.8	35.7	35.7	35.5	
7	FINANCIAL, INS, REAL E	36.6	36.7	36.7	36.7	36.7	36.8	36.8	36.8	36.8	36.8	36.9	36.9	36.9	36.9	
8	SERVICES	33.41	33.1	33.2	33.3	33.4	33.5	33.6	33.6	33.7	33.7	33.8	33.8	33.8	33.8	
9	WHOLESALE & RETAIL TRA	35.41	35.3	35.2	35.1	35.0	35.0	35.0	34.9	34.9	34.9	34.9	34.9	34.9	34.9	
10	GOVERNMENT	40.01	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	
11																
12																
13																
14	WRCGS	I TOTAL COMPENSATION OF F	114.7	116.9	120.9	123.5	126.1	128.6	132.0	134.9	137.0	140.8	144.4	147.6	150.9	
15	WRCGS	I AGRICULTURE, FORESTRY,	11.51	11.1	10.9	10.7	10.7	11.0	11.1	11.1	11.3	11.4	11.5	11.7	11.8	
16	WRCGS	I MINING	17.51	17.6	18.6	19.6	20.5	21.2	21.7	22.3	22.8	23.3	23.8	24.2	24.7	
17	WRCGS	I MANUFACTURING: DURABLE	202.61	207.5	213.5	220.7	227.9	234.1	239.8	246.0	252.7	259.4	265.9	273.0	280.8	
18	WRCGS	I MANUFACTURING: NONDUR	116.11	118.1	120.4	123.3	125.1	127.2	129.6	132.4	134.4	137.1	140.1	143.2	145.5	
19	WRCGS	I REGULATED	89.61	92.2	94.7	98.2	101.4	104.3	107.1	110.1	113.0	116.1	119.0	122.3	125.4	
20	WRCGS	I CONTRACT CONSTRUCTION	61.51	64.7	66.8	69.8	71.3	72.3	73.5	74.9	76.3	77.8	79.6	81.4	83.4	
21	WRCGS	I FINANCIAL, INS, REAL ES	61.31	62.5	63.9	65.7	67.6	69.4	71.4	73.4	75.6	78.0	80.4	83.0	85.6	
22	WRCGS	I SERVICES	165.21	169.6	174.7	179.5	184.7	189.6	194.8	200.0	205.4	210.8	216.6	222.1	228.2	
23	WRCGS	I WHOLESALE & RETAIL TR	191.71	194.9	198.1	202.6	206.5	210.4	214.4	218.7	223.1	227.8	232.4	237.6	242.4	
24	WRCGS	I GOVERNMENT	227.91	231.5	234.3	242.5	245.8	249.0	257.2	260.3	263.4	266.5	275.1	278.3	281.6	
25	WRCGS	I REST OF WORLD	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26																
27		HOURLY WAGE RATES														
28	WRCMG	I MANUFACTURING AND MINI	7.001	7.94	8.08	8.27	8.43	8.58	8.72	8.89	9.05	9.22	9.39	9.58	9.78	
29	WRCMG	I MINING	9.801	9.18	9.37	9.59	9.80	9.97	10.13	10.31	10.51	10.72	10.90	11.12	11.36	
30	WRCMG	I MANUFACTURING	7.751	7.88	8.02	8.21	8.36	8.51	8.65	8.81	8.97	9.15	9.31	9.51	9.70	
31	WRCMG	I MANUFACTURING: DURABLE	8.281	8.44	8.59	8.79	8.98	9.15	9.30	9.47	9.67	9.86	10.04	10.24	10.47	
32	WRCMG	I MANUFACTURING: NONDUR	6.951	7.06	7.18	7.33	7.42	7.54	7.66	7.81	7.90	8.04	8.19	8.36	8.48	
33	WRCMG	I REGULATED	9.371	9.59	9.76	9.99	10.21	10.42	10.63	10.85	11.09	11.34	11.58	11.86	12.14	
34	WRCGS	I CONTRACT CONSTRUCTION	8.241	8.57	8.80	9.16	9.35	9.50	9.66	9.85	10.02	10.22	10.43	10.66	10.90	
35	WRCGS	I FINANCIAL, INS, REAL E	7.191	7.26	7.34	7.47	7.60	7.72	7.85	7.99	8.13	8.29	8.44	8.61	8.78	
36	WRCGS	I SERVICES	6.251	6.39	6.52	6.63	6.75	6.86	6.98	7.09	7.21	7.33	7.46	7.58	7.72	
37	WRCGS	I WHOLESALE & RETAIL TRA	6.061	6.15	6.23	6.35	6.45	6.56	6.66	6.77	6.88	7.01	7.12	7.26	7.39	
38																
39		ANNUAL COMPENSATION														
40	WRCGS	I TOTAL GOVERNMENT WAGES	197.21	200.1	207.2	209.7	212.3	214.8	222.3	224.7	227.1	229.5	237.4	239.9	242.5	
41	WRCGS	I CIV GOVT	172.51	175.3	180.8	183.3	185.9	188.4	194.2	196.6	199.0	201.4	207.4	209.9	212.5	
42	WRCGS	I MILITARY	24.71	24.8	26.4	26.4	26.4	26.4	26.1	26.1	26.1	26.1	30.0	30.0	30.0	
43	WRCGS	I LESS: FED GOV WAGE ACC	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	WRCGS	I LESS: STATE GOV WAGE AC	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45	WRCGS	I COMPENSATION PER EMPLOYEE	13.401	13.60	14.60	14.70	14.80	14.90	16.00	16.10	16.20	16.30	17.50	17.60	17.70	
46	WRCGS	I STATE & LOCAL GOVT	11.011	11.20	11.50	11.40	11.50	11.60	11.70	11.80	11.90	12.00	12.10	12.20	12.30	
47	WRCGS	I AGRICULTURE, FORESTRY, F	3.461	3.46	3.47	3.47	3.53	3.61	3.71	3.75	3.83	3.91	3.99	4.08	4.16	

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BEST AVAILABLE COPY

THE WARREN QUARTERLY MODEL MARK 4.6
SPECIAL UNH FORECAST: OCTOBER 1977

TABLE 16.00 EMPLOYMENT, HOURS AND WAGES

LINE	VAR LABEL	ITEM	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	NLT	A TOTAL LABOR FORCE	105.91	106.33	106.77	107.22	107.65	108.05	108.45	108.81	99.46	101.45	103.41	105.61	107.42
2	NLC	I TOTAL CIVILIAN	103.82	104.24	104.68	105.13	105.56	105.96	106.37	106.71	97.53	99.73	101.71	103.54	105.33
3	NLTNA25.34*	E LABOR FORCE, MALES, 2	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	15.4	15.6	16.2	16.6	17.0
4	NLM	E MILITARY MANPOWER	2.08	2.08	2.09	2.09	2.09	2.09	2.09	2.09	2.13	2.11	2.10	2.09	2.09
5	NRUT	B TOTAL UNEMPLOYMENT RATE	6.35	6.22	6.11	6.04	5.94	5.83	5.75	5.72	7.11	7.01	6.68	6.37	5.98
6	NRUTNA25.54	H UNEMPL RT, MALES, 25-5	3.93	3.83	3.76	3.70	3.63	3.56	3.51	3.50	4.43	4.43	4.17	3.95	3.66
7	RCVNRUT	I POTENTIAL UNEMPL RATE	6.22	6.11	6.06	6.02	5.94	5.87	5.82	5.81	7.14	6.97	6.42	6.23	5.97
9	NPTM	E TOTAL U.S. POPULATION	220.9	221.3	221.7	222.1	222.5	222.9	223.3	223.7	216.7	218.0	219.3	220.7	222.3
10	NPT05.15	E U.S. POPN, AGES 5-15 Y	37.7	37.5	37.3	37.1	37.0	36.9	36.8	36.7	40.7	39.6	38.6	37.8	37.1
11	NPT16.19	E U.S. POPN, AGES 16-19 Y	16.7	16.6	16.5	16.4	16.3	16.1	16.0	15.9	17.0	16.9	16.8	16.7	16.5
12	NPTN16+	E U.S. POPN, 16 AND OVER	165.6	166.1	166.6	167.1	167.6	168.0	168.5	168.9	158.5	160.0	163.1	165.3	167.3
14															
15		EMPLOYMENT (MILLIONS)													
16	NEMT	I CIVILIAN EMPLOYMENT	97.25	97.76	98.28	98.78	99.29	99.78	100.24	100.68	90.41	92.75	94.91	96.98	99.03
17	NEMA	A AGRICULTURE	2.81	2.78	2.76	2.73	2.71	2.68	2.66	2.64	3.20	3.04	2.93	2.82	2.72
18	NEHN	I NONAGRICULTURE	94.43	94.98	95.52	96.05	96.59	97.10	97.59	98.05	87.21	89.71	91.99	94.16	96.32
19	NEET	I EMP NONAG PAYROLLS	88.88	89.40	89.91	90.41	90.92	91.40	91.86	92.29	82.07	84.41	86.57	88.63	90.66
20	NEETNG	B MINING	0.98	0.98	0.97	0.97	0.96	0.95	0.95	0.94	0.84	0.83	0.87	0.98	0.96
21	NEETMFG	H MANUF DURABLES	12.74	12.80	12.94	13.04	13.14	13.23	13.32	13.40	11.47	11.91	12.34	12.69	13.09
22	NEETNMN	B MANUF NONDURABLES	8.28	8.29	8.30	8.30	8.31	8.31	8.32	8.31	8.07	8.13	8.20	8.27	8.31
23	NEETNG	B REGULATED	4.05	4.06	4.06	4.06	4.06	4.06	4.05	4.04	4.59	4.71	4.79	4.84	4.86
25	NEETCC	B CONTRACT CONSTRUCTI	4.17	4.19	4.22	4.24	4.26	4.29	4.31	4.34	3.83	3.97	4.06	4.16	4.25
26	NEETFI	H FINANCIAL, INS, REAL	5.14	5.21	5.27	5.34	5.40	5.47	5.54	5.61	4.50	4.68	4.88	5.11	5.37
27	NEETSV	B SERVICES	16.95	17.10	17.24	17.38	17.52	17.67	17.80	17.94	15.31	15.81	16.33	16.88	17.45
28	NEETTR	B WHOLESALE & RETAIL	19.39	19.47	19.54	19.61	19.67	19.74	19.79	19.84	18.26	18.63	19.00	19.35	19.68
29	NEETGV	B GOVERNMENT	16.30	16.48	16.58	16.68	16.78	16.88	16.98	17.08	15.19	15.42	15.98	16.34	16.73
30	NEETGOV	E FEDERAL GOVERNMENT	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72
31	NEETGVS	E STATE AND LOCAL	13.66	13.76	13.86	13.96	14.06	14.16	14.26	14.36	12.47	12.90	13.26	13.62	14.01
32	NEHNSF	E SELF-EMPLOYED	6.40	6.43	6.46	6.49	6.52	6.55	6.58	6.61	6.01	6.14	6.26	6.38	6.50
33	NEHNSF	F UNPAID FAMILY WORKERS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
34	NEHNSF-ET	E CONCEP TUAL DIFFERENCE	-1.35	-1.35	-1.35	-1.35	-1.35	-1.35	-1.35	-1.35	-1.37	-1.35	-1.35	-1.35	-1.35
35		LABOR FORCE V. ESTAB. EMPL													
36															
37		MANHOURS													
38	NMLTTPV	I TOTAL MANHOURS: PRIV SE	137.0	137.7	138.5	139.1	139.8	140.5	141.1	141.6	126.7	130.5	133.7	136.6	139.5
39	NMLTTFB	A MINING	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	1.9	2.1	2.2	2.2	2.1
40	NMLTTFB	B MANUFACTURING: DURABLE	27.0	27.3	27.5	27.7	27.9	28.1	28.3	28.5	24.4	25.5	26.2	26.9	27.0
41	NMLTTFB	B MANUFACTURING: NONDURA	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	16.6	16.9	17.0	17.2	17.2
42	NMLTTFB	B REGULATED	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.3	9.6	10.0	10.2	10.3	10.4
43	NMLTTC	H CONTRACT CONSTRUCTION	7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.8	7.4	7.6	7.6	7.7	7.7
44	NMLTTFI	B FINANCIAL, INS, REAL	9.9	10.0	10.1	10.3	10.4	10.5	10.7	10.8	8.6	8.9	9.4	9.8	10.3
45	NMLTTSV	H SERVICES	29.8	30.1	30.4	30.6	30.9	31.1	31.4	31.6	26.5	27.5	28.6	29.7	30.8
46	NMLTTR	H WHOLESALE & RETAIL	32.9	33.0	33.0	33.1	33.2	33.2	33.3	33.3	31.6	32.0	32.5	32.8	33.1
47	NMLTTR	I GOVERNMENT	34.1	34.1	34.5	34.7	34.9	35.1	35.3	35.5	31.6	32.5	33.2	34.0	34.8

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL ONH FORECAST OCTOBER 1977

TABLE 16.00 EMPLOYMENT, HOURS AND WAGES

LINE	VAP LABEL	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
EMPLOYMENT														
1	AVAIL EMP	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2	TOTAL EMP	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
3	MANUFACTURING	42.5	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
4	MANUFACTURING: DURABLE	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
5	MANUFACTURING: NONDURABLE	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
6	REGULATED	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
7	CONTRACT CONSTRUCTION	35.4	35.3	35.2	35.1	35.0	34.9	34.8	34.7	34.6	34.5	34.4	34.3	34.2
8	FINANCIAL, INS, REAL E	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
9	SERVICES	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
10	WHOLESALE & RETAIL TRA	32.6	32.6	32.5	32.5	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
11	GOVERNMENT	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
WAGES														
12	TOTAL COMPENSATION OF E	1543.4	1542.4	1541.7	1541.0	1540.3	1539.6	1538.9	1538.2	1537.5	1536.8	1536.1	1535.4	1534.7
13	AGRICULTURE, FORESTRY,	11.9	12.1	12.3	12.4	12.6	12.7	12.9	13.1	13.3	13.5	13.7	13.9	14.1
14	MINING	25.1	25.4	25.8	26.1	26.4	26.7	27.0	27.3	27.6	27.9	28.2	28.5	28.8
15	MANUFACTURING: DURABLE	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
16	MANUFACTURING: NONDURABLE	148.4	151.3	154.6	158.0	162.9	166.5	170.5	174.2	177.8	181.5	185.2	188.9	192.6
17	REGULATED	128.4	131.5	134.8	138.0	141.0	144.1	147.2	150.3	153.4	156.5	159.6	162.7	165.8
18	CONTRACT CONSTRUCTION	85.4	87.3	89.7	91.9	94.4	96.9	99.7	102.3	104.9	107.5	110.1	112.7	115.3
19	FINANCIAL, INS, REAL E	234.5	240.6	247.0	254.1	261.5	268.9	276.2	283.9	291.6	299.3	307.0	314.7	322.4
20	WHOLESALE & RETAIL TR	247.3	252.3	257.6	262.6	268.0	273.5	279.1	284.6	290.1	295.6	301.1	306.6	312.1
21	GOVERNMENT	284.9	284.2	284.2	284.2	284.2	284.2	284.2	284.2	284.2	284.2	284.2	284.2	284.2
22	REST OF WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOURLY WAGE RATES														
23	MANUFACTURING AND MINI	9.97	10.15	10.36	10.56	10.77	10.98	11.22	11.44	11.67	11.90	12.13	12.36	12.59
24	MANUFACTURING: DURABLE	11.59	11.79	12.02	12.21	12.41	12.61	12.81	13.01	13.21	13.41	13.61	13.81	14.01
25	MANUFACTURING: NONDURABLE	9.90	10.08	10.29	10.48	10.69	10.90	11.11	11.31	11.51	11.71	11.91	12.11	12.31
26	REGULATED	10.69	10.88	11.10	11.32	11.56	11.77	12.02	12.28	12.54	12.80	13.06	13.32	13.58
27	CONTRACT CONSTRUCTION	8.64	8.80	8.99	9.12	9.29	9.47	9.69	9.93	10.17	10.41	10.65	10.89	11.13
28	FINANCIAL, INS, REAL E	12.40	12.67	12.97	13.26	13.57	13.88	14.21	14.54	14.87	15.20	15.53	15.86	16.19
29	WHOLESALE & RETAIL TR	11.14	11.36	11.64	11.89	12.16	12.44	12.77	13.06	13.36	13.66	13.96	14.26	14.56
30	SERVICES	8.95	9.12	9.30	9.48	9.67	9.86	10.06	10.26	10.46	10.66	10.86	11.06	11.26
31	GOVERNMENT	7.86	7.99	8.13	8.29	8.47	8.63	8.80	8.98	9.16	9.34	9.52	9.70	9.88
32	REST OF WORLD	7.52	7.65	7.80	7.93	8.08	8.23	8.38	8.53	8.68	8.83	8.98	9.13	9.28
ANNUAL COMPENSATION														
33	TOTAL GOVERNMENT PAGES	245.1	253.7	256.5	259.3	262.2	271.3	274.2	277.1	280.0	282.9	285.8	288.7	291.6
34	CIV GOVT	215.1	221.8	224.6	227.4	230.3	237.3	240.2	243.1	246.0	248.9	251.8	254.7	257.6
35	MILITARY	30.0	31.9	31.9	31.9	31.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
36	LESS: FED GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	LESS: STATE GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	LESS: LOCAL GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	LESS: FED GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	LESS: STATE GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	LESS: LOCAL GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	LESS: FED GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	LESS: STATE GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	LESS: LOCAL GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	LESS: FED GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	LESS: STATE GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	LESS: LOCAL GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	LESS: FED GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	LESS: STATE GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	LESS: LOCAL GOV WAGE ACC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 17.00 CAPITAL STOCKS, OUTPUT ORIGINATING, DEPRECIATION, USEN COST

1	FIXED CAPITAL STOCKS (72 371)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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THE MONTHLY QUARTERLY MODEL MARK 4.6
SPECIAL UNW FORECAST: OCTOBER 1977

LINE	VAR LABEL	ITEM	TABLE 17.00 CAPITAL STOCKS, OUTPUT ORIGINATING, DEPRECIATION, USER COST												
			1980.1	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
FIXED CAPITAL STOCKS (72 \$M)															
1	NIAG	AGRICULTURE, FORESTRY, MINING	81.6	82.1	82.7	83.3	83.8	84.4	84.9	85.4	73.8	76.4	78.4	81.3	83.6
2	NIAG	MANUFACTURING DURABLE	28.5	28.8	29.2	29.5	29.9	30.2	30.6	30.9	24.9	25.9	27.0	28.3	29.7
3	NIAG	MANUFACTURING NONDURABLE	183.2	185.5	187.8	190.3	192.8	195.4	198.1	200.8	168.0	166.1	171.6	182.1	191.6
4	NIAG	TRANSPORTATION	215.5	217.7	220.0	222.2	224.5	226.9	229.2	231.5	190.6	198.1	206.0	218.4	225.4
5	NIAG	COMMUNICATIONS	65.2	65.8	66.5	67.3	68.0	68.7	69.5	70.2	62.1	62.0	62.9	64.9	67.6
6	NIAG	UTILITIES	120.7	122.4	124.0	125.6	127.1	128.7	130.1	131.6	100.6	105.9	112.8	119.8	126.3
7	NIAG	COMMERCIAL	214.6	217.8	221.3	225.0	229.0	233.2	237.7	242.3	183.2	192.3	202.3	213.2	227.1
8	NIAG	RESIDUAL	181.0	182.4	183.9	185.5	187.2	188.9	190.6	192.3	169.7	171.5	175.4	180.3	186.4
9	NIAG	TRANSPORTATION	206.1	208.5	210.9	213.3	215.7	218.1	220.4	222.7	175.9	185.1	195.0	204.9	214.5
CAPITAL STOCK HOUSING															
10	NIAG	CONSTANT DOLLARS	901.8	909.1	916.5	923.9	931.5	939.2	947.2	955.4	800.5	836.2	868.0	898.0	927.8
11	NIAG	CURRENT DOLLARS	818.4	834.1	850.2	866.7	883.8	901.7	920.4	940.0	630.0	690.8	750.9	810.7	875.6
DEPRECIATION (CURRENT \$)															
12	CCAT	TOTAL CAPL CONSUMPTION	275.6	283.0	291.0	299.0	307.3	315.9	325.4	334.7	196.9	219.3	243.6	272.1	301.3
13	CCAT	REAL ESTATE	44.33	45.08	45.77	46.51	47.24	48.08	48.91	49.79	35.80	38.50	41.22	43.98	46.91
DEPRECIATION RATES															
14	CCAT	AGRICULTURE, FORESTRY, MINING	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
15	CCAT	MANUFACTURING DURABLE	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
16	CCAT	MANUFACTURING NONDURABLE	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
17	CCAT	TRANSPORTATION	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
18	CCAT	COMMUNICATIONS	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069
19	CCAT	UTILITIES	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
20	CCAT	COMMERCIAL	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
21	CCAT	RESIDUAL	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
USER COSTS OF CAPITAL (CURRS)															
22	UCKAG	AGRICULTURE, FORESTRY, MINING	27.7	27.3	29.1	29.9	31.2	31.2	32.4	33.3	26.0	28.0	28.9	28.1	30.4
23	UCKAG	MANUFACTURING DURABLE	18.4	18.8	19.2	19.5	19.9	20.3	20.7	21.1	16.4	15.7	16.8	16.2	19.7
24	UCKAG	MANUFACTURING NONDURABLE	21.7	22.2	23.0	23.7	24.4	25.1	26.0	26.9	17.7	19.7	20.5	21.7	24.1
25	UCKAG	TRANSPORTATION	23.5	24.1	24.7	25.4	26.0	26.6	27.4	28.1	19.9	21.2	22.6	23.4	25.7
26	UCKAG	COMMUNICATIONS	25.3	25.9	26.7	27.6	28.3	28.9	29.7	30.4	19.0	20.2	22.2	24.8	27.9
27	UCKAG	UTILITIES	31.4	32.0	32.7	33.4	34.0	34.6	35.2	35.9	25.0	26.3	29.6	31.1	33.6
28	UCKAG	COMMERCIAL	19.1	20.5	21.8	23.0	24.0	24.9	25.6	26.1	9.7	10.1	11.5	18.2	23.5
29	UCKAG	RESIDUAL	24.8	25.6	26.4	27.1	27.7	28.3	29.0	29.6	17.7	20.0	21.9	28.5	27.4

A PRODUCT OF CHANTON (LA.), 4025 CHESTNUT ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.
MAXIMUM DESCRIPTION ALLOWED PERMITTED IS LESS THAN ACTUAL WIDTH, TRUNCATION WILL OCCUR
ACTUALS 10 PERMITTED 23

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TABLE 17.10 TABLE 17 CONTINUED

LINE	VAR LABEL	I	T	M	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
OUTPUT ORIGINATING CURRENT \$																	
1	TOTAL (GNP)-----	1869.9	1919.0	1973.5	2019.8	2065.7	2110.5	2161.4	2210.6	2261.3	2315.6	2374.2	2434.3	2492.0			
2	I PRIVATE SECTOR-----	1666.8	1712.7	1759.4	1803.3	1846.3	1889.3	1931.5	1977.9	2025.9	2077.4	2127.9	2185.1	2240.0			
3	A AGRICULTURE, FORESTRY,	58.7	57.1	57.2	54.7	55.9	58.6	60.1	55.5	57.9	61.3	61.5	61.4	64.6			
4	M MINING-----	46.5	53.1	56.6	65.4	68.2	70.5	72.8	79.8	82.3	80.9	87.2	97.9	100.8			
5	M MANUFACTURING-----	451.0	455.5	468.8	479.9	492.6	503.8	515.7	530.0	543.7	558.1	573.9	590.5	607.6			
6	M MANUFACTURING DURAB	274.7	277.6	286.4	294.0	303.4	311.8	320.1	329.4	338.8	348.4	359.3	370.4	382.3			
7	M MANUFACTURING NONDU	176.3	177.8	182.5	185.8	189.1	192.0	195.6	200.6	204.9	209.5	214.6	220.1	225.2			
8	R REGULATED-----	162.2	170.4	174.2	177.7	181.7	185.6	190.0	194.6	199.1	204.3	209.8	215.7	218.3			
9	U TRANSPORTATION-----	68.5	69.3	70.9	72.5	74.4	76.4	78.4	80.5	82.6	84.8	87.2	89.1	91.3			
10	C COMMUNICATIONS-----	48.8	51.0	51.9	52.6	53.4	54.1	54.9	55.7	56.4	57.6	58.7	59.7	60.3			
11	U UTILITIES-----	45.0	50.1	51.4	52.7	53.9	55.2	56.7	58.4	60.1	61.9	63.5	64.9	66.3			
12	C COMMERCIAL-----	902.1	930.4	955.9	977.6	999.0	1019.7	1042.1	1066.2	1089.9	1114.7	1141.0	1165.7	1191.5			
13	I CONTRACT CONSTRUCTION-----	83.4	87.2	89.9	93.3	94.7	95.7	97.0	98.4	100.3	102.3	104.6	106.9	109.4			
14	I FINANCIAL, INS, REAL ES	262.8	269.8	277.2	283.3	290.0	296.8	304.4	312.4	320.6	328.9	337.5	345.9	353.7			
15	S SERVICES-----	226.6	230.8	246.1	251.7	257.7	263.1	268.9	274.8	280.9	287.0	293.8	299.7	306.8			
16	W WHOLESALE & RETAIL TR	327.3	335.0	342.6	349.2	356.5	364.0	371.7	380.4	388.1	396.5	405.1	413.7	421.8			
17	G GOVERNMENT-----	232.1	235.8	243.9	247.5	251.1	254.7	263.2	266.8	270.3	273.9	282.9	286.6	290.3			
18	F FEDERAL-----	203.1	206.3	213.7	216.5	219.4	222.2	230.6	232.7	235.4	238.1	246.3	249.1	252.0			
19	S STATE AND LOCAL-----	65.5	65.9	70.7	71.2	71.6	72.0	77.3	77.7	78.1	78.5	84.3	84.7	85.1			
20	G GOVERNMENT ENTERPRISE	137.6	140.3	142.9	145.3	147.8	150.2	152.7	155.1	157.3	159.6	162.0	164.5	166.9			
21	R REST OF WORLD-----	29.0	29.5	30.2	31.0	31.7	32.5	33.3	34.1	34.9	35.7	36.6	37.5	38.4			
22	E DISCREPANCY GNP V. GNP	14.4	16.7	16.9	17.1	17.2	17.4	17.6	17.8	18.0	18.2	18.3	18.5	18.7			
23	D DISCREPANCY GNP V. GNP	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
OUTPUT ORIGINATING CURRENT \$																	
24	TOTAL (GNP)-----	1330.7	1344.9	1362.7	1372.7	1386.4	1399.0	1412.1	1424.6	1437.8	1451.0	1465.5	1475.5	1486.6			
25	I PRIVATE SECTOR-----	1184.0	1197.8	1214.8	1224.4	1237.3	1249.2	1261.2	1273.0	1285.5	1298.0	1311.6	1320.8	1331.0			
26	A AGRICULTURE, FORESTRY,	41.1	43.9	43.7	42.0	42.4	44.0	44.1	43.2	44.1	44.2	44.3	44.3	44.3			
27	M MINING-----	20.3	21.2	22.1	22.9	23.4	23.7	23.9	24.1	24.4	24.7	24.9	24.9	25.0			
28	M MANUFACTURING-----	324.8	324.1	329.7	332.9	337.3	340.7	344.7	349.1	353.0	357.2	361.8	365.1	368.7			
29	M MANUFACTURING DURAB	197.5	197.2	200.8	203.0	206.1	208.5	211.0	213.6	216.2	218.8	221.8	224.2	227.0			
30	M MANUFACTURING NONDU	127.2	126.9	128.8	129.9	131.2	132.2	133.7	135.5	136.9	138.4	140.0	140.9	141.8			
31	R REGULATED-----	120.4	124.3	125.6	126.4	127.6	128.8	130.2	131.6	133.0	134.6	136.2	137.3	138.6			
32	U TRANSPORTATION-----	50.6	50.6	51.2	51.5	52.0	52.6	53.3	54.1	54.8	55.5	56.3	56.8	57.5			
33	C COMMUNICATIONS-----	42.2	43.8	44.4	44.7	45.2	45.5	46.0	46.5	46.9	47.3	47.8	48.2	48.5			
34	U UTILITIES-----	27.6	29.9	30.0	30.2	30.4	30.6	30.9	31.1	31.4	31.7	32.1	32.3	32.7			
35	C COMMERCIAL-----	651.5	659.4	669.3	675.7	682.0	687.8	693.7	700.3	706.3	712.8	719.8	728.8	734.9			
36	I CONTRACT CONSTRUCTION-----	59.0	60.8	61.3	61.6	61.8	61.5	61.4	61.4	61.8	61.6	61.9	62.0	62.2			
37	I FINANCIAL, INS, REAL ES	207.2	210.2	214.3	216.6	219.0	221.1	223.4	225.8	228.0	230.4	232.9	234.7	236.6			
38	S SERVICES-----	160.4	163.6	165.7	167.3	169.0	170.6	172.3	174.0	175.7	177.4	179.3	180.6	182.3			
39	W WHOLESALE & RETAIL TR	224.1	225.2	228.0	230.1	232.3	234.3	236.6	239.1	241.2	243.4	245.8	247.3	248.8			
40	G GOVERNMENT-----	164.5	165.1	165.7	166.1	167.0	167.8	168.8	169.6	170.2	170.9	171.9	172.6	173.3			
41	F FEDERAL-----	146.7	147.2	147.8	148.2	149.1	149.9	150.9	151.7	152.3	153.0	154.0	154.7	155.4			
42	S STATE AND LOCAL-----	48.8	48.5	48.7	48.7	48.7	48.7	48.9	48.9	48.8	48.8	49.0	49.0	49.0			
43	G GOVERNMENT ENTERPRISE	96.1	98.7	99.1	99.5	100.4	101.2	102.0	102.8	103.5	104.2	104.9	105.7	106.4			
44	R REST OF WORLD-----	7.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0			
45	E DISCREPANCY GNP V. GNP	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
APPENDIX																	
46	CAPACITY UTIL. MIN/MAN	90.1	89.6	90.4	90.6	91.0	91.1	91.3	91.4	91.6	91.9	92.0	91.9	92.0			
47	CAPACITY UTIL. MINING	90.4	89.8	90.6	90.6	91.2	91.3	91.4	91.6	91.7	91.9	92.1	92.0	92.0			
48	CAPACITY UTIL. MINING--	93.3	90.1	93.1	93.9	97.0	97.1	97.1	96.7	97.0	97.3	96.8	96.0	95.8			
49	CAPACITY UTIL. MANUFAC	90.3	89.8	90.5	90.6	90.9	90.9	91.1	91.3	91.8	91.6	91.8	91.0	91.8			
50	CAPACITY UTIL. MANUFAC	88.2	87.6	88.3	88.9	89.0	89.2	89.4	89.6	89.9	90.2	90.3	90.3	90.5			
51	CAPACITY UTIL. MANUFAC	93.0	91.6	94.1	94.2	94.3	94.1	94.2	94.4	94.8	94.8	94.8	94.3	94.3			
52	CAPACITY UTIL. UTILITI	8.2	86.2	86.4	86.6	87.3	87.7	88.0	88.3	88.6	89.1	89.1	89.3	89.3			

TABLE 17.10 TABLE 17 CONTINUED

LINE	VAR	LABEL	I	F	4	1960.3	1960.4	1961.1	1961.2	1961.3	1961.4	1962.1	1962.2	1962.3	1962.4	1962.5	1962.6	1962.7	1962.8	1962.9	1962.10	1962.11	1962.12	1963.1	1963.2	1963.3	1963.4	1963.5	1963.6	1963.7	1963.8	1963.9	1963.10	1963.11	1963.12	1964.1	1964.2	1964.3	1964.4	1964.5	1964.6	1964.7	1964.8	1964.9	1964.10	1964.11	1964.12	1965.1	1965.2	1965.3	1965.4	1965.5	1965.6	1965.7	1965.8	1965.9	1965.10	1965.11	1965.12	1966.1	1966.2	1966.3	1966.4	1966.5	1966.6	1966.7	1966.8	1966.9	1966.10	1966.11	1966.12	1967.1	1967.2	1967.3	1967.4	1967.5	1967.6	1967.7	1967.8	1967.9	1967.10	1967.11	1967.12	1968.1	1968.2	1968.3	1968.4	1968.5	1968.6	1968.7	1968.8	1968.9	1968.10	1968.11	1968.12	1969.1	1969.2	1969.3	1969.4	1969.5	1969.6	1969.7	1969.8	1969.9	1969.10	1969.11	1969.12	1970.1	1970.2	1970.3	1970.4	1970.5	1970.6	1970.7	1970.8	1970.9	1970.10	1970.11	1970.12	1971.1	1971.2	1971.3	1971.4	1971.5	1971.6	1971.7	1971.8	1971.9	1971.10	1971.11	1971.12	1972.1	1972.2	1972.3	1972.4	1972.5	1972.6	1972.7	1972.8	1972.9	1972.10	1972.11	1972.12	1973.1	1973.2	1973.3	1973.4	1973.5	1973.6	1973.7	1973.8	1973.9	1973.10	1973.11	1973.12	1974.1	1974.2	1974.3	1974.4	1974.5	1974.6	1974.7	1974.8	1974.9	1974.10	1974.11	1974.12	1975.1	1975.2	1975.3	1975.4	1975.5	1975.6	1975.7	1975.8	1975.9	1975.10	1975.11	1975.12	1976.1	1976.2	1976.3	1976.4	1976.5	1976.6	1976.7	1976.8	1976.9	1976.10	1976.11	1976.12	1977.1	1977.2	1977.3	1977.4	1977.5	1977.6	1977.7	1977.8	1977.9	1977.10	1977.11	1977.12	1978.1	1978.2	1978.3	1978.4	1978.5	1978.6	1978.7	1978.8	1978.9	1978.10	1978.11	1978.12	1979.1	1979.2	1979.3	1979.4	1979.5	1979.6	1979.7	1979.8	1979.9	1979.10	1979.11	1979.12	1980.1	1980.2	1980.3	1980.4	1980.5	1980.6	1980.7	1980.8	1980.9	1980.10	1980.11	1980.12	1981.1	1981.2	1981.3	1981.4	1981.5	1981.6	1981.7	1981.8	1981.9	1981.10	1981.11	1981.12	1982.1	1982.2	1982.3	1982.4	1982.5	1982.6	1982.7	1982.8	1982.9	1982.10	1982.11	1982.12	1983.1	1983.2	1983.3	1983.4	1983.5	1983.6	1983.7	1983.8	1983.9	1983.10	1983.11	1983.12	1984.1	1984.2	1984.3	1984.4	1984.5	1984.6	1984.7	1984.8	1984.9	1984.10	1984.11	1984.12	1985.1	1985.2	1985.3	1985.4	1985.5	1985.6	1985.7	1985.8	1985.9	1985.10	1985.11	1985.12	1986.1	1986.2	1986.3	1986.4	1986.5	1986.6	1986.7	1986.8	1986.9	1986.10	1986.11	1986.12	1987.1	1987.2	1987.3	1987.4	1987.5	1987.6	1987.7	1987.8	1987.9	1987.10	1987.11	1987.12	1988.1	1988.2	1988.3	1988.4	1988.5	1988.6	1988.7	1988.8	1988.9	1988.10	1988.11	1988.12	1989.1	1989.2	1989.3	1989.4	1989.5	1989.6	1989.7	1989.8	1989.9	1989.10	1989.11	1989.12	1990.1	1990.2	1990.3	1990.4	1990.5	1990.6	1990.7	1990.8	1990.9	1990.10	1990.11	1990.12	1991.1	1991.2	1991.3	1991.4	1991.5	1991.6	1991.7	1991.8	1991.9	1991.10	1991.11	1991.12	1992.1	1992.2	1992.3	1992.4	1992.5	1992.6	1992.7	1992.8	1992.9	1992.10	1992.11	1992.12	1993.1	1993.2	1993.3	1993.4	1993.5	1993.6	1993.7	1993.8	1993.9	1993.10	1993.11	1993.12	1994.1	1994.2	1994.3	1994.4	1994.5	1994.6	1994.7	1994.8	1994.9	1994.10	1994.11	1994.12	1995.1	1995.2	1995.3	1995.4	1995.5	1995.6	1995.7	1995.8	1995.9	1995.10	1995.11	1995.12	1996.1	1996.2	1996.3	1996.4	1996.5	1996.6	1996.7	1996.8	1996.9	1996.10	1996.11	1996.12	1997.1	1997.2	1997.3	1997.4	1997.5	1997.6	1997.7	1997.8	1997.9	1997.10	1997.11	1997.12	1998.1	1998.2	1998.3	1998.4	1998.5	1998.6	1998.7	1998.8	1998.9	1998.10	1998.11	1998.12	1999.1	1999.2	1999.3	1999.4	1999.5	1999.6	1999.7	1999.8	1999.9	1999.10	1999.11	1999.12	2000.1	2000.2	2000.3	2000.4	2000.5	2000.6	2000.7	2000.8	2000.9	2000.10	2000.11	2000.12	2001.1	2001.2	2001.3	2001.4	2001.5	2001.6	2001.7	2001.8	2001.9	2001.10	2001.11	2001.12	2002.1	2002.2	2002.3	2002.4	2002.5	2002.6	2002.7	2002.8	2002.9	2002.10	2002.11	2002.12	2003.1	2003.2	2003.3	2003.4	2003.5	2003.6	2003.7	2003.8	2003.9	2003.10	2003.11	2003.12	2004.1	2004.2	2004.3	2004.4	2004.5	2004.6	2004.7	2004.8	2004.9	2004.10	2004.11	2004.12	2005.1	2005.2	2005.3	2005.4	2005.5	2005.6	2005.7	2005.8	2005.9	2005.10	2005.11	2005.12	2006.1	2006.2	2006.3	2006.4	2006.5	2006.6	2006.7	2006.8	2006.9	2006.10	2006.11	2006.12	2007.1	2007.2	2007.3	2007.4	2007.5	2007.6	2007.7	2007.8	2007.9	2007.10	2007.11	2007.12	2008.1	2008.2	2008.3	2008.4	2008.5	2008.6	2008.7	2008.8	2008.9	2008.10	2008.11	2008.12	2009.1	2009.2	2009.3	2009.4	2009.5	2009.6	2009.7	2009.8	2009.9	2009.10	2009.11	2009.12	2010.1	2010.2	2010.3	2010.4	2010.5	2010.6	2010.7	2010.8	2010.9	2010.10	2010.11	2010.12	2011.1	2011.2	2011.3	2011.4	2011.5	2011.6	2011.7	2011.8	2011.9	2011.10	2011.11	2011.12	2012.1	2012.2	2012.3	2012.4	2012.5	2012.6	2012.7	2012.8	2012.9	2012.10	2012.11	2012.12	2013.1	2013.2	2013.3	2013.4	2013.5	2013.6	2013.7	2013.8	2013.9	2013.10	2013.11	2013.12	2014.1	2014.2	2014.3	2014.4	2014.5	2014.6	2014.7	2014.8	2014.9	2014.10	2014.11	2014.12	2015.1	2015.2	2015.3	2015.4	2015.5	2015.6	2015.7	2015.8	2015.9	2015.10	2015.11	2015.12	2016.1	2016.2	2016.3	2016.4	2016.5	2016.6	2016.7	2016.8	2016.9	2016.10	2016.11	2016.12	2017.1	2017.2	2017.3	2017.4	2017.5	2017.6	2017.7	2017.8	2017.9	2017.10	2017.11	2017.12	2018.1	2018.2	2018.3	2018.4	2018.5	2018.6	2018.7	2018.8	2018.9	2018.10	2018.11	2018.12	2019.1	2019.2	2019.3	2019.4	2019.5	2019.6	2019.7	2019.8	2019.9	2019.10	2019.11	2019.12	2020.1	2020.2	2020.3	2020.4	2020.5	2020.6	2020.7	2020.8	2020.9	2020.10	2020.11	2020.12	2021.1	2021.2	2021.3	2021.4	2021.5	2021.6	2021.7	2021.8	2021.9	2021.10	2021.11	2021.12	2022.1	2022.2	2022.3	2022.4	2022.5	2022.6	2022.7	2022.8	2022.9	2022.10	2022.11	2022.12	2023.1	2023.2	2023.3	2023.4	2023.5	2023.6	2023.7	2023.8	2023.9	2023.10	2023.11	2023.12	2024.1	2024.2	2024.3	2024.4	2024.5	2024.6	2024.7	2024.8	2024.9	2024.10	2024.11	2024.12	2025.1	2025.2	2025.3	2025.4	2025.5	2025.6	2025.7	2025.8	2025.9	2025.10	2025.11	2025.12	2026.1	2026.2	2026.3	2026.4	2026.5	2026.6	2026.7	2026.8	2026.9	2026.10	2026.11	2026.12	2027.1	2027.2	2027.3	2027.4	2027.5	2027.6	2027.7	2027.8	2027.9	2027.10	2027.11	2027.12	2028.1	2028.2	2028.3	2028.4	2028.5	2028.6	2028.7	2028.8	2028.9	2028.10	2028.11	2028.12	2029.1	2029.2	2029.3	2029.4	2029.5	2029.6	2029.7	2029.8	2029.9	2029.10	2029.11	2029.12	2030.1	2030.2	2030.3	2030.4	2030.5	2030.6	2030.7	2030.8	2030.9	2030.10	2030.11	2030.12	2031.1	2031.2	2031.3	2031.4	2031.5	2031.6	2031.7	2031.8	2031.9	2031.10	2031.11	2031.12	2032.1	2032.2	2032.3	2032.4	2032.5	2032.6	2032.7	2032.8	2032.9	2032.10	2032.11	2032.12	2033.1	2033.2	2033.3	2033.4	2033.5	2033.6	2033.7	2033.8	2033.9	2033.10	2033.11	2033.12	2034.1	2034.2	2034.3	2034.4	2034.5	2034.6	2034.7	2034.8	2034.9	2034.10	2034.11	2034.12	2035.1	2035.2	2035.3	2035.4	2035.5	2035.6	2035.7	2035.8	2035.9	2035.10	2035.11	2035.12	2036.1	2036.2	2036.3	2036.4	2036.5	2036.6	2036.7	2036.8	2036.9	2036.10	2036.11	2036.12	2037.1	2037.2	2037.3	2037.4	2037.5	2037.6	2037.7	2037.8	2037.9	2037.10	2037.11	2037.12	2038.1	2038.2	2038.3	2038.4	2038.5	2038.6	2038.7	2038.8	2038.9	2038.10	2038.11	2038.12	2039.1	2039.2	2039.3	2039.4	2039.5	2039.6	2039.7	2039.8	2039.9	2039.10	2039.11	2039.12	2040.1	2040.2	2040.3	2040.4	2040.5	2040.6	2040.7	2040.8	2040.9	2040.10	2040.11	2040.12	2041.1	2041.2	2041.3	2041.4	2041.5	2041.6	2041.7	2041.8	2041.9	2041.10	2041.11	2041.12	2042.1	2042.2	2042.3	2042.4	2042.5	2042.6	2042.7	2042.8	2042.9	2042.10	2042.11	2042.12	2043.1	2043.2	2043.3	2043.4	2043.5	2043.6	2043.7	2043.8	2043.9	2043.10	2043.11	2043.12	2044.1	2044.2	2044.3	2044.4	2044.5	2044.6	2044.7	2044.8	2044.9	2044.10	2044.11	2044.12	2045.1	2045.2	2045.3	2045.4	2045.5	2045.6	2045.7	2045.8	2045.9	2045.10	2045.11	2045.12	2046.1	2046.2	2046.3	2046.4	2046.5	2046.6	2046.7	2046.8	2046.9	2046.10	2046.11	2046.12	2047.1	2047.2	2047.3	2047.4	2047.5	2047.6	2047.7	2047.8	2047.9	2047.10	2047.11	2047.12	2048.1	2048.2	2048.3	2048.4	2048.5	2048.6	2048.7	2048.8	2048.9	2048.10	2048.11	2048.12	2049.1	2049.2	2049.3	2049.4	2049.5	2049.6	2049.7	2049.8	2049.9	2049.10	2049.11	2049.12	2050.1	2050.2	2050.3	2050.4	2050.5	2050.6	2050.7	2050.8	2050.9	2050.10	2050.11	2050.12	2051.1	2051.2	2051.3	2051.4	2051.5	2051.6	2051.7	2051.8	2051.9	2051.10	2051.11	2051.12	2052.1	2052.2	2052.3	2052.4	2052.5	2052.6	2052.7	2052.8	2052.9	2052.10	2052.11	2052.
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THE WASHINGTON QUARTERLY MODEL MARK 4.6
SPECIAL UNR FORECAST, OCTOBER 1977

TABLE 18.00 TAX RELATED VARIABLES

LINE	VAR LABEL	ITEM	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	INCESTPL/TAXESTS	E WATIO EMPL CONTRIN	44.11	44.1	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
2	INCESTPL/TAXESTS	E SOCIAL SECURITY TO TOTAL	0.1061	0.106	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
3	INCESTPL/TAXESTS	E EMPLOYER/EMPLOYEE	0.1061	0.106	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
4	INCESTPL/TAXESTS	E MAX WAGE SUB TO OA	16.51	16.5	17.7	17.7	17.7	17.7	17.7	19.2	19.2	19.2	19.2	20.7	20.7
5	INCESTPL/TAXESTS	E EFFECTIVE CORP TAX RATE	25.11	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
6	INCESTPL/TAXESTS	E AGRICULTURE, FORES	25.11	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
7	INCESTPL/TAXESTS	E MINING	46.01	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
8	INCESTPL/TAXESTS	E MANUFACTURABLES	45.31	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
9	INCESTPL/TAXESTS	E MANUFACTURABLES	42.01	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
10	INCESTPL/TAXESTS	E TRANSPORTATION	39.11	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
11	INCESTPL/TAXESTS	E TRANSPORTATION	47.41	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
12	INCESTPL/TAXESTS	E COMMUNICATIONS	47.51	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
13	INCESTPL/TAXESTS	E UTILITIES	31.01	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
14	INCESTPL/TAXESTS	E COMMERCIAL	1.01	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
15	INCESTPL/TAXESTS	E DUMMY, EFF CORP T	1.01	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16	INCESTPL/TAXESTS	E INVESTMENT TAX CREDIT RATE	5.5011	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501
17	INCESTPL/TAXESTS	E AGRICULTURE, FORES	5.5011	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501	5.501
18	INCESTPL/TAXESTS	E MINING	7.4761	7.476	7.476	7.476	7.476	7.476	7.476	7.476	7.476	7.476	7.476	7.476	7.476
19	INCESTPL/TAXESTS	E MANUFACTURABLES	7.5901	7.590	7.590	7.590	7.590	7.590	7.590	7.590	7.590	7.590	7.590	7.590	7.590
20	INCESTPL/TAXESTS	E MANUFACTURABLES	6.0471	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047
21	INCESTPL/TAXESTS	E TRANSPORTATION	4.9001	4.900	4.900	4.900	4.900	4.900	4.900	4.900	4.900	4.900	4.900	4.900	4.900
22	INCESTPL/TAXESTS	E TRANSPORTATION	5.9161	5.916	5.916	5.916	5.916	5.916	5.916	5.916	5.916	5.916	5.916	5.916	5.916
23	INCESTPL/TAXESTS	E COMMUNICATIONS	5.3261	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326	5.326
24	INCESTPL/TAXESTS	E UTILITIES	1.0001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
25	INCESTPL/TAXESTS	E COMMERCIAL	0.6971	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697
26	INCESTPL/TAXESTS	E DUMMY, INVEST TAX	0.5951	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
27	INCESTPL/TAXESTS	E PRESENT VALUE \$ DEPR	0.5951	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
28	INCESTPL/TAXESTS	E AGRICULTURE, FORES	0.5951	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
29	INCESTPL/TAXESTS	E MINING	0.6331	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633
30	INCESTPL/TAXESTS	E MANUFACTURABLES	0.6331	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633
31	INCESTPL/TAXESTS	E MANUFACTURABLES	0.5721	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572	0.572
32	INCESTPL/TAXESTS	E TRANSPORTATION	0.5651	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565	0.565
33	INCESTPL/TAXESTS	E TRANSPORTATION	0.4671	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467
34	INCESTPL/TAXESTS	E COMMUNICATIONS	0.5951	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
35	INCESTPL/TAXESTS	E UTILITIES	14.21	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
36	INCESTPL/TAXESTS	E COMMERCIAL	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
37	INCESTPL/TAXESTS	E EFFECTIVE TAX LIFE	17.01	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
38	INCESTPL/TAXESTS	E AGRICULTURE, FORES	18.41	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
39	INCESTPL/TAXESTS	E MINING	23.31	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
40	INCESTPL/TAXESTS	E MANUFACTURABLES	23.91	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
41	INCESTPL/TAXESTS	E MANUFACTURABLES	34.01	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
42	INCESTPL/TAXESTS	E TRANSPORTATION	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
43	INCESTPL/TAXESTS	E TRANSPORTATION	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
44	INCESTPL/TAXESTS	E COMMUNICATIONS	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
45	INCESTPL/TAXESTS	E UTILITIES	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
46	INCESTPL/TAXESTS	E COMMERCIAL	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
47	INCESTPL/TAXESTS	E EFFECTIVE TAX LIFE	21.41	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4

TIME WARTION QUARTERLY MODEL MARK 4.6
SPECIAL ONM FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITEM	1977.2	1977.3	1978.1	1978.2	1978.3	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
MISCELLANEOUS TAXES													
1													
2	3 TXRPFYVS	R TAX, FED INC, TOT	320.5	334.7	339.7	345.6	351.7	357.8	363.9	376.2	382.5	388.4	394.9
3	4 TXRPFYVS	B TAX, FED INC, # E	220.7	229.1	229.5	229.7	230.3	230.7	231.1	231.5	231.9	232.3	232.7
4	5 TXRPFYVS	F TAX, FED INC, VAL	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
5													
6													
PROPORTION OF INC TAXED													
7	6 TXRPFY1	M 1ST BRACKET	0.037	0.034	0.031	0.029	0.027	0.024	0.022	0.020	0.018	0.016	0.013
8	7 TXRPFY2	B 2ND BRACKET	0.036	0.036	0.036	0.034	0.032	0.031	0.029	0.027	0.026	0.024	0.021
9	8 TXRPFY3	M 3RD BRACKET	0.039	0.040	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
10	9 TXRPFY4	M 4TH BRACKET	0.056	0.054	0.053	0.051	0.049	0.048	0.046	0.044	0.043	0.041	0.038
11	10 TXRPFY5	R 5TH BRACKET	0.062	0.061	0.060	0.059	0.059	0.058	0.057	0.056	0.055	0.054	0.053
12	11 TXRPFY6	R 6TH BRACKET	0.294	0.292	0.291	0.289	0.288	0.286	0.284	0.282	0.280	0.277	0.272
13	12 TXRPFY7	R 7TH BRACKET	0.221	0.225	0.228	0.232	0.235	0.238	0.241	0.244	0.247	0.250	0.255
14	13 TXRPFY8	R 8TH BRACKET	0.141	0.146	0.150	0.154	0.159	0.164	0.168	0.173	0.178	0.184	0.194
15	14 TXRPFY9	R 9TH BRACKET	0.150	0.150	0.150	0.151	0.152	0.152	0.153	0.153	0.153	0.154	0.154
16													
TAX WAIF, PERSONAL INCOME													
17	15 TXRPFY1	E 1ST BRACKET	14.00	14.00	14.00	14.00	14.00	14.00	12.00	12.00	12.00	12.00	12.00
18	16 TXRPFY2	E 2ND BRACKET	15.00	15.00	15.00	15.00	15.00	15.00	13.00	13.00	13.00	13.00	13.00
19	17 TXRPFY3	E 3RD BRACKET	16.00	16.00	16.00	16.00	16.00	16.00	14.00	14.00	14.00	14.00	14.00
20	18 TXRPFY4	E 4TH BRACKET	17.00	17.00	17.00	17.00	17.00	17.00	16.00	16.00	16.00	16.00	16.00
21	19 TXRPFY5	E 5TH BRACKET	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
22	20 TXRPFY6	E 6TH BRACKET	22.00	22.00	22.00	22.00	22.00	22.00	23.00	23.00	23.00	23.00	23.00
23	21 TXRPFY7	E 7TH BRACKET	25.00	25.00	25.00	25.00	25.00	25.00	26.00	26.00	26.00	26.00	26.00
24	22 TXRPFY8	E 8TH BRACKET	28.00	28.00	28.00	28.00	28.00	28.00	30.00	30.00	30.00	30.00	30.00
25	23 TXRPFY9	E 9TH BRACKET	32.00	32.00	32.00	32.00	32.00	32.00	34.00	34.00	34.00	34.00	34.00
26	24 TXRPFY10	E DUMMY, PER, INC 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	25 TXRPFY11	E DUMMY, PER, INC 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28													
29	26 YPTAX23	I EST PERIL INC TAX	1375.00	1401.0	1473.5	1511.0	1547.1	1587.1	1619.5	1657.7	1698.6	1743.7	1782.4
30	27 YPTAX35	I EST PERIL TAX INC	879.71	901.0	934.8	961.7	993.0	1022.7	1056.3	1083.2	1115.3	1148.5	1187.0
31	28 TXRPFY1	E FED COMP TAX RATE	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
32	29 TXRPFY2	E LFF TAX MT, SEL 1	15.3	15.3	15.2	15.1	15.1	15.0	15.0	14.9	14.9	14.8	14.7
33													
GAS TAX CENTS PER GAL													
34	30 TXRPFY1	E FED GAS TAX	9.01	9.01	9.01	9.01	9.01	9.01	9.01	9.01	9.01	9.01	9.01
35	31 TXRPFY2	E STATE & LOCAL GAS	8.61	8.7	8.8	8.8	8.9	8.9	9.0	9.0	9.1	9.1	9.2
36	32 TXRPFY3	E STATE & LOCAL GAS	8.61	8.7	8.8	8.8	8.9	8.9	9.0	9.0	9.1	9.1	9.2

A PRODUCT OF PHARION E.P.A., 4025 CHESTNUT ST, PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE WHARTON QUANTITATIVE MODEL MARK 4.6 SPECIAL UNW FORECAST, OCTOBER 1977

LINE	VARIABLE	ITEM	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
2	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
3	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
4	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
5	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
6	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
7	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
8	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
9	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
10	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
11	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
12	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
13	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
14	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
15	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
16	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
17	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
18	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
19	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
20	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
21	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
22	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
23	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
24	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
25	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
26	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
27	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
28	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
29	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
30	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
31	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
32	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
33	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
34	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
35	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
36	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
37	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
38	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
39	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
40	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
41	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
42	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
43	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
44	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
45	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
46	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0
47	INVESTMENT	E	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.1	43.0	43.0	43.0	43.0

THE WHARTON QUANTITATIVE MODEL MARK 4.6
SPECIAL UMR FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITEM	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
MISCELLANEOUS TAXES															
1															
2	TXRPF0V3	U TAX, FED INC, TOT	402.9	409.4	415.7	422.4	431.3	437.9	444.8	451.9	317.6	340.7	372.6	398.9	426.8
3	TXRPF0V4	H TAX, FED INC, #E	233.6	234.1	234.5	235.0	235.5	236.0	236.5	236.9	220.5	230.1	231.7	233.4	235.2
4	TXRPF0V5	E TAX, FED INC, VAL	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
5															
6															
PROPORTION OF INC TAXED															
7	TXRPF1V1	H 1ST BRACKET	0.012	0.010	0.009	0.007	0.006	0.005	0.004	0.003	0.036	0.028	0.019	0.012	0.007
8	TXRPF1V2	H 2ND BRACKET	0.020	0.018	0.017	0.016	0.015	0.013	0.012	0.011	0.039	0.033	0.027	0.020	0.015
9	TXRPF1V3	H 3RD BRACKET	0.037	0.035	0.034	0.032	0.031	0.029	0.028	0.027	0.055	0.050	0.044	0.037	0.032
10	TXRPF1V4	H 4TH BRACKET	0.052	0.051	0.051	0.050	0.049	0.048	0.048	0.047	0.062	0.059	0.054	0.053	0.050
11	TXRPF1V5	H 5TH BRACKET	0.269	0.266	0.264	0.261	0.258	0.254	0.252	0.249	0.295	0.288	0.281	0.271	0.259
12	TXRPF1V6	H 6TH BRACKET	0.257	0.260	0.262	0.264	0.266	0.267	0.269	0.270	0.223	0.233	0.245	0.256	0.265
13	TXRPF1V7	H 7TH BRACKET	0.199	0.206	0.211	0.216	0.222	0.228	0.234	0.239	0.141	0.157	0.176	0.197	0.219
14	TXRPF1V8	H 8TH THRU TOP BRAC	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.154	0.149	0.151	0.153	0.154	0.154
15															
16															
TAX RATE, PERSONAL INCOME															
17	TXRPF1V1	E 1ST BRACKET	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	14.00	14.00	12.00	12.00	12.00
18	TXRPF1V2	E 2ND BRACKET	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	15.00	15.00	13.00	13.00	13.00
19	TXRPF1V3	E 3RD BRACKET	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	16.00	16.00	14.00	14.00	14.00
20	TXRPF1V4	E 4TH BRACKET	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	17.00	17.00	16.00	16.00	16.00
21	TXRPF1V5	E 5TH BRACKET	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
22	TXRPF1V6	E 6TH BRACKET	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	22.00	22.00	23.00	23.00	23.00
23	TXRPF1V7	E 7TH BRACKET	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	25.00	25.00	26.00	26.00	26.00
24	TXRPF1V8	E 8TH THRU TOP BRAC	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
25	TXRPF1V9	E 9TH BRACKET	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	32.00	32.00	34.00	34.00	34.00
26	TXRPF1V9	E 9TH BRACKET	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	32.00	32.00	34.00	34.00	34.00
27	DUMTPTNFY	E DUMMY, PER, INC 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28															
29	YPTAX21	1 EST PER'L INC TAX	1066.1	1917.2	1959.4	2004.1	2051.7	2105.5	2152.7	2200.1	1387.6	1529.7	1679.9	1848.1	2030.2
30	YPTAX33	1 EST PER'L TAX INC	1290.0	1332.3	1367.0	1405.5	1443.0	1490.6	1530.5	1570.5	898.5	1008.4	1133.5	1278.1	1426.9
31	TXRPTNF	E FED COMP TAX RATE	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
32	TXRPTNFES	E EFF TAX WT, SBL 1	18.7	18.6	18.6	18.5	18.5	18.4	18.4	18.3	15.2	15.1	14.9	14.7	14.5
33															
GAS TAX CENTS PER GAL															
34															
35	TXRPF	E FED GAS TAX	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
36	TXRSC	E STATE & LOCAL GAS	9.3	9.3	9.4	9.4	9.5	9.5	9.6	9.6	8.8	8.9	9.1	9.3	9.5

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THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL INTERPRETATION: OCTOBER 1977

TABLE 10.00 MISCELLANEOUS VARIABLES
TIME VAR LABEL TIME VAR LABEL 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2

TIME AND DUMMY VARIABLES											
1	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	DUMMYS FOR MURKIN	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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TABLE 19.00 MISCELLANEOUS VARIABLES

[illegible]

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THE MARRIOTT QUARTERLY MODEL MARK 4.6
SPECIAL UMR FORECAST: OCTOBER 1977

LINE	VAR LABEL	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
TABLE 19.10 MISCELLANEOUS VARIABLES CONTINUED														
1	WEIGHTED RESERVES RATIO													
2	TIME DEPOSITS---	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
3	ALC RES REPORT DEM	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
4	MAX TIME DEP RATE	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
5														
6	Ratio Member BK Dep to Total													
7	EUROS/FUNDS	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
8	FORTS/FUNDS	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
9														
10	OTHER MISC FINANCIAL VARI													
11	RSP CETING----	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
12	EXPECTED ENG MOOD	13.091	10.10	7.34	7.39	7.38	6.64	7.08	5.66	5.03	6.07	5.83	4.83	5.18
13	FED RES (G TERM)	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
14	3 MONTH EURO/DILA	5.521	5.60	5.65	5.70	5.75	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50
15														
16	OCCUPANCY RATES													
17	TOTAL OCCUPIED RA	91.6	91.7	91.8	91.8	91.9	91.9	91.9	91.8	91.8	91.7	91.7	91.6	91.6
18	INHEM OCCUPIED HO	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2
19	RENTAL HINISNG---	94.9	95.0	95.2	95.3	95.4	95.4	95.4	95.4	95.6	95.6	95.9	96.0	96.1
20	CPI - HEUT - 72 RA	127.8	129.8	132.0	134.0	136.0	137.8	139.0	141.8	143.8	145.9	147.8	149.9	151.9
21														
22	TECHTAGS	26.7	27.0	27.3	27.6	27.9	28.2	28.5	28.8	29.1	29.4	29.7	30.0	30.3
23	TECGLAROS	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
24														
25	DID PRIME MILITAN	65.5	60.0	61.2	62.4	63.6	64.8	66.0	67.2	68.4	69.6	70.8	72.0	73.2
26	HEALTH PRINXY----	1039.7	1049.5	1059.6	1070.4	1080.9	1091.6	1102.4	1113.3	1124.2	1135.2	1146.2	1157.5	1168.5
27														
28	SCHOOL ENROLLMENT RATES													
29	MALES 16 TO 19----	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
30	MALES 20 TO 24----	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
31	FEMALES 16 TO 19----	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
32														
33	FERTILITY RATES													
34	AGES 15 TO 19----	52.9	52.5	52.0	51.6	51.1	50.7	50.2	49.8	49.3	48.9	48.4	48.0	47.5
35	AGES 20 TO 24----	106.6	105.6	104.5	103.4	102.3	101.3	100.2	99.1	98.0	97.0	95.9	94.8	93.7
36	AGES 25 TO 34----	153.3	152.3	151.2	150.1	149.0	147.9	146.8	145.7	144.6	143.5	142.4	141.3	140.2
37	AGES 35 TO 44----	22.1	21.9	21.6	21.4	21.1	20.9	20.6	20.4	20.1	19.9	19.6	19.4	19.1
38	ALL AGES-----	1726.2	1717.7	1709.2	1700.7	1692.2	1683.7	1675.2	1666.7	1658.2	1649.7	1641.2	1632.7	1624.2
39														
40														
41	REAL COMP PER MMR-	110.3	110.7	119.5	120.4	121.1	121.7	122.2	122.8	123.3	123.7	124.4	124.7	125.2
42	POTENTIAL GNP AT 42													
43	GNP POT	1534.0	1540.0	1562.0	1576.0	1590.0	1604.0	1618.0	1632.0	1646.0	1660.0	1674.0	1688.0	1702.0
44														
45														

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BEST AVAILABLE COPY

THE WHARTON QUANTITATIVE MODEL MARK 4.6
SPECIAL UNR FORECAST OCTOBER 1977

LIFE	VAR LABEL	1960.3	1960.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
TABLE 19.10 MISCELLANEOUS VARIABLES CONTINUED														
1	PERPERS PRESERVES RATIO													
2	FRET	E	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
3	FRED	E	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
4	FREDC	E	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
5														
6	FDORA/FDORS	E	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
7	FDORA/FDORS	E	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
8														
9														
10	OTHER MISC FINANCIAL VAR													
11	FRMPL	E	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
12	FRMPLA	E	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05
13	FRMPLA/100	E	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
14	FRMPLA/100	E	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
15														
16	HOOTU	E	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
17	HOOTU	E	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
18	HOOTU	E	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
19														
20	PCSW72*	E	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1	154.1
21														
22	TEUGTAGS	E	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
23	TEUGTAGS	E	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
24	TEUGTAGS	E	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
25	DDPCNS	E	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
26	DDPCNS	E	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
27	KGHP	E	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
28														
29	SCHUL ENROLLMENT RATES													
30	NPSRA16.19	E	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
31	NPSRA20.24	E	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
32	NPSRA16.19	E	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
33														
34	FERTILITY RATES													
35	AGES 15 TO 19----	E	47.1	46.6	46.2	45.7	45.3	44.8	44.4	43.9	43.5	43.1	42.7	42.3
36	AGES 20 TO 24----	E	92.7	91.6	90.5	89.4	88.4	87.3	86.2	85.1	84.1	83.1	82.1	81.1
37	AGES 25 TO 29----	E	141.4	140.3	139.2	138.1	137.1	136.0	134.9	133.8	132.7	131.6	130.5	129.4
38	AGES 30 TO 34----	E	18.9	18.6	18.4	18.1	17.9	17.6	17.4	17.1	16.9	16.7	16.5	16.3
39	AGES 35 TO 39----	E	1615.7	1607.2	1598.7	1590.2	1581.7	1573.2	1564.7	1556.2	1547.7	1539.2	1530.7	1522.2
40														
41														
42	BLSPMPH	E	125.9	126.5	127.2	127.7	128.4	129.0	129.6	130.1	130.5	131.1	131.5	132.0
43	POTENTIAL GNP AT 4X													
44	GNP/100	E	1716.0	1730.0	1744.0	1758.0	1772.0	1786.0	1800.0	1814.0	1828.0	1842.0	1856.0	1870.0
45	GNP/100	E	1716.0	1730.0	1744.0	1758.0	1772.0	1786.0	1800.0	1814.0	1828.0	1842.0	1856.0	1870.0

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THE HANTRON QUARTERLY MODEL MARK 4.6
SPECIAL UNR FORECAST: OCTOBER 1977

TABLE 20.00 INDUSTRIAL SECTOR DETAIL

	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1 MANUFACTURING: NONDURABLES													
10 REAL OUTPUT	197.50	197.15	200.03	203.00	206.09	208.47	211.03	213.61	216.16	218.63	221.79	224.24	226.76
11 % CHANGE, REAL OUTPUT	28.68	-0.78	7.66	4.39	6.24	4.69	5.02	4.96	4.86	5.04	5.51	4.50	4.94
12 MANHOURS	24.85	24.59	24.85	25.09	25.37	25.59	25.79	25.97	26.14	26.31	26.49	26.65	26.82
13 % CHANGE, MANHOURS	11.25	2.29	4.18	3.97	4.50	3.54	3.12	2.86	2.68	2.61	2.77	2.47	2.85
14 EMPLOYMENT	11.46	11.51	11.61	11.72	11.85	11.98	12.10	12.20	12.30	12.39	12.48	12.56	12.64
15 % CHANGE, EMPLOYMENT	6.62	1.88	3.49	3.82	4.47	4.52	3.93	3.50	3.16	2.97	2.93	2.66	2.57
16 AVERAGE WEEKLY HOURS	41.03	41.07	41.14	41.16	41.16	41.06	40.98	40.92	40.87	40.84	40.82	40.80	40.79
17 % CHANGE, AVERAGE WEEKLY HOURS	4.34	0.40	0.66	0.14	0.03	-0.94	-0.78	-0.61	-0.47	-0.52	-0.16	-0.19	-0.12
18 COMPENSATION OF EMPLOY	202.60	207.52	213.47	220.66	227.91	234.13	239.79	246.00	252.73	259.45	265.90	272.99	280.81
19 % CHANGE, COMP OF EMP	19.93	10.08	11.96	14.17	13.81	11.30	10.02	10.77	11.41	11.06	10.32	11.09	11.97
20 COMPENSATION PER MANHO	6.28	6.44	6.59	6.79	6.98	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91
21 % CHANGE, COMP PER MH	7.80	7.61	7.47	9.81	8.91	7.57	6.69	7.69	8.50	8.21	7.35	8.42	9.29
22 CAPITAL STOCK	139.04	140.82	142.59	144.85	147.23	149.55	151.69	154.21	156.76	159.39	162.00	165.19	168.45
23 % CHANGE, SECTOR PRI	5.57	5.23	5.11	6.50	6.73	6.46	5.86	6.79	6.78	6.89	6.71	6.11	6.13
24 REAL INVESTMENT, PLANT	18.80	19.04	19.94	20.72	21.35	21.84	22.29	22.66	23.05	23.47	23.90	24.33	24.75
25 % CHANGE, REAL INVEST	9.66	3.52	20.12	16.79	12.61	9.59	6.45	6.76	7.16	7.49	7.49	7.29	7.12
26 USER COST OF CAPITAL	16.87	18.39	19.74	19.55	19.64	19.64	20.00	20.12	20.29	20.52	20.93	21.16	21.49
27 CAPACITY UTILIZATION	88.24	87.57	88.30	88.41	88.85	89.01	89.24	89.44	89.62	89.85	90.18	90.30	90.50
28 % CHANGE, CAPACITY UTILIZATION	159.35	160.55	161.95	163.50	165.18	166.93	168.76	170.64	172.58	174.58	176.63	178.75	180.91
29 MANUFACTURING: DURABLES													
30 REAL OUTPUT	127.22	126.94	128.83	129.92	131.20	132.20	133.71	135.52	136.88	138.35	139.97	140.89	141.76
31 % CHANGE, REAL OUTPUT	6.59	-0.87	6.08	3.45	3.99	3.10	4.64	5.50	4.94	4.38	4.75	2.65	2.52
32 MANHOURS	16.70	16.73	16.78	16.82	16.85	16.88	16.91	16.96	17.01	17.05	17.10	17.13	17.15
33 % CHANGE, MANHOURS	8.96	0.69	1.21	0.95	0.69	0.62	0.80	1.15	1.06	1.07	1.16	0.70	0.32
34 EMPLOYMENT	8.12	8.07	8.09	8.11	8.12	8.14	8.15	8.17	8.19	8.21	8.23	8.25	8.26
35 % CHANGE, EMPLOYMENT	6.05	-2.32	0.90	0.80	0.79	0.65	0.76	0.98	0.96	0.99	1.06	0.80	0.57
36 AVERAGE WEEKLY HOURS	39.53	39.83	39.87	39.88	39.89	39.89	39.89	39.91	39.92	39.93	39.94	39.95	39.96
37 % CHANGE, AVERAGE WEEKLY HOURS	2.74	3.09	0.31	0.15	0.10	-0.03	0.04	0.16	0.10	0.08	0.09	-0.10	-0.24
38 COMPENSATION OF EMPLOY	116.10	118.07	120.41	123.27	125.08	127.23	129.60	132.40	134.42	137.14	140.07	143.20	145.47
39 % CHANGE, COMP OF EMP	13.43	6.95	8.18	9.83	6.00	7.06	7.68	8.91	6.26	8.32	8.84	9.25	6.49
40 COMPENSATION PER MANHO	6.95	7.06	7.10	7.33	7.42	7.54	7.66	7.81	7.90	8.04	8.19	8.36	8.48
41 % CHANGE, COMP PER MH	4.10	6.22	6.89	8.79	5.06	6.40	6.82	7.67	5.14	7.18	7.60	8.49	6.15
42 SECTOR PRICE	138.61	140.10	141.63	143.03	144.15	145.26	146.28	148.00	149.69	151.46	153.34	156.21	158.88
43 % CHANGE, SECTOR PRI	11.13	8.39	4.84	4.00	3.17	3.11	2.83	4.60	4.63	4.81	5.06	7.71	7.02
44 REAL INVESTMENT, PLANT	22.29	22.43	22.93	23.06	23.34	23.59	23.85	24.08	24.33	24.65	24.94	25.22	25.53
45 % CHANGE, REAL INVEST	23.56	2.57	9.11	2.26	5.00	4.45	4.37	4.02	4.19	5.31	4.82	4.61	4.99
46 USER COST OF CAPITAL	18.86	20.19	21.32	21.21	20.97	20.91	21.74	22.17	22.70	23.05	22.48	22.59	23.20
47 CAPACITY UTILIZATION	93.83	93.60	94.15	94.23	94.30	94.14	94.21	94.38	94.37	94.40	94.49	94.29	94.06
48 % CHANGE, CAPACITY UTILIZATION	189.74	191.53	193.40	195.27	197.17	199.09	201.04	203.01	205.00	207.03	209.10	211.19	213.31

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL IIR FORECAST, OCTOBER 1977

LINE VAR LABEL		TABLE 20.00 INDUSTRIAL SECTOR DETAIL																							
		1977.2 1977.3 1977.4 1978.1 1978.2 1978.3 1978.4 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2																							
		MILNIG																							
		H REAL OUTPUT-----																							
1	2 XMG	20.33	21.20	22.06	22.89	23.37	23.67	23.93	24.12	24.43	24.74	24.87	24.95	25.05											
3	3 XMG	13.85	18.15	17.28	15.79	8.73	5.20	4.88	3.16	5.25	5.22	2.20	1.22	1.60											
4	4 XMG	1.95	1.92	1.99	2.05	2.09	2.13	2.15	2.16	2.17	2.18	2.18	2.18	2.17											
5	5 XMG	16.06	6.19	15.19	12.84	9.35	6.18	4.03	2.32	1.87	1.58	0.50	-0.46	-0.94											
6	6 XMG	0.85	0.83	0.87	0.90	0.92	0.94	0.95	0.96	0.97	0.98	0.98	0.98	0.98											
7	7 XMG	10.89	8.21	21.33	12.56	10.17	7.75	5.83	4.17	3.12	2.68	1.63	0.67	0.02											
8	8 XMG	44.13	44.37	43.80	43.83	43.75	43.59	43.40	43.21	43.05	42.94	42.82	42.70	42.60											
9	9 XMG	4.66	2.19	-5.06	0.25	-0.74	-1.46	-1.70	-1.77	-1.80	-1.80	-1.80	-1.80	-1.80											
10	10 XMG	17.50	17.61	18.60	19.63	20.51	21.19	21.74	22.26	22.80	23.33	23.77	24.21	24.68											
11	11 XMG	23.51	2.45	28.67	23.04	19.25	14.00	10.76	9.86	10.21	9.60	7.66	7.65	7.95											
12	12 XMG	8.98	9.18	9.37	9.59	9.80	9.97	10.13	10.31	10.51	10.72	10.90	11.12	11.36											
13	13 XMG	6.82	9.21	8.23	9.75	9.05	7.36	6.47	7.37	8.18	7.69	7.12	6.14	8.97											
14	14 XMG																								
15	15 XMG	220.74	250.50	256.50	265.00	291.00	298.00	304.20	331.00	336.00	343.20	350.50	392.20	402.60											
16	16 XMG	33.77	43.83	9.93	54.13	8.67	8.77	8.56	40.18	7.19	7.82	8.78	56.77	11.04											
17	17 XMG	3.11	3.13	3.10	3.19	3.20	3.30	3.46	3.52	3.58	3.65	3.72	3.74	3.78											
18	18 XMG	19.26	2.03	-2.58	11.54	11.89	12.10	9.99	7.29	7.62	7.91	7.74	1.79	4.89											
19	19 XMG	15.12	15.36	15.60	15.37	15.61	15.85	16.09	16.38	16.65	16.95	17.23	17.69	18.09											
20	20 XMG	93.35	90.07	93.10	95.91	96.98	97.13	97.11	96.75	97.00	97.10	96.79	96.04	95.42											
21	21 XMG	24.79	25.01	25.23	25.46	25.71	25.98	26.26	26.55	26.85	27.16	27.49	27.80	28.13											
22	22 XMG																								
23	23 XMG																								
24	24 XMG																								
25	25 XMG																								
26	26 XMG																								
27	27 XMG																								
28	28 XMG																								
29	29 XMG	59.83	60.38	61.27	61.63	61.77	61.51	61.44	61.36	61.42	61.59	61.88	62.00	62.18											
30	30 XMG	33.13	3.73	6.02	2.37	0.88	-1.68	-0.44	-0.52	0.41	1.09	1.87	0.80	1.17											
31	31 XMG	7.46	7.55	7.60	7.62	7.63	7.61	7.61	7.60	7.61	7.62	7.63	7.64	7.65											
32	32 XMG	29.85	4.91	2.69	1.07	0.40	-0.76	-0.20	-0.24	0.19	0.49	0.84	0.36	0.53											
33	33 XMG	3.86	3.88	3.91	3.93	3.96	3.98	4.00	4.01	4.03	4.07	4.10	4.12	4.14											
34	34 XMG	24.35	2.47	2.54	2.54	2.52	2.45	2.41	2.36	2.33	2.32	2.32	2.29	2.28											
35	35 XMG	37.17	37.39	37.40	37.26	37.07	36.78	36.54	36.31	36.11	35.95	35.82	35.65	35.50											
36	36 XMG	4.42	2.39	0.14	-1.84	-2.07	-3.14	-2.54	-2.54	-2.10	-1.78	-1.44	-1.89	-1.71											
37	37 XMG	61.50	64.69	66.05	69.82	71.30	72.33	73.47	74.87	76.27	77.63	79.61	81.43	83.39											
38	38 XMG	46.50	22.45	13.99	18.99	8.74	5.95	6.85	7.84	7.66	8.45	9.47	9.48	10.00											
39	39 XMG	8.24	8.57	8.80	9.16	9.35	9.50	9.66	9.85	10.02	10.22	10.43	10.66	10.90											
40	40 XMG	12.82	16.71	11.00	17.73	8.31	6.76	6.66	6.10	7.46	7.92	8.55	9.08	9.42											
41	41 XMG																								
42	42 XMG																								
43	43 XMG	139.39	148.42	146.77	151.45	153.39	155.65	157.89	160.75	163.37	166.08	169.01	172.35	175.87											
44	44 XMG	5.37	15.24	6.65	13.30	5.22	6.02	5.08	7.44	6.68	6.82	7.25	8.12	8.45											
45	45 XMG	15.74	16.42	16.93	17.54	18.17	18.78	19.35	19.94	20.27	20.62	21.16	21.29	21.62											
46	46 XMG	-4.15	18.38	13.05	15.24	15.06	14.09	17.04	8.18	6.82	7.06	10.83	2.44	6.34											
47	47 XMG	17.33	17.89	18.67	19.11	19.73	20.33	20.82	21.24	21.62	22.12	22.55	23.32	24.06											

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THE HARJUN QUARTERLY MODEL MARK 4.0
SPECIAL INR FORECAST, OCTOBER 1977

LINE	VAR LABEL	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
TABLE 20.00 INDUSTRIAL SECTION DETAIL														
1	FINANCE, INSURANCE, REAL ESTATE													
2	REAL OUTPUT	207.19	210.17	214.29	216.64	218.99	221.09	223.44	225.80	228.04	230.40	232.88	234.72	236.60
3	% CHANGE, REAL OUTPUT	5.14	5.87	8.08	4.87	4.80	3.90	4.32	4.29	4.03	4.20	4.38	5.19	3.25
4	MANHOURS	8.53	8.61	8.70	8.80	8.89	8.99	9.09	9.19	9.30	9.41	9.52	9.64	9.75
5	% CHANGE, MANHOURS	3.06	5.99	4.28	4.34	4.41	4.45	4.53	4.62	4.70	4.79	4.90	4.92	4.96
6	EMPLOYMENT	4.81	4.82	4.86	4.81	4.85	4.70	4.75	4.80	4.86	4.91	4.97	5.02	5.08
7	% CHANGE, EMPLOYMENT	3.01	3.64	3.98	4.06	4.13	4.18	4.28	4.38	4.46	4.56	4.67	4.71	4.76
8	AVERAGE WEEKLY HOURS	36.63	36.66	36.69	36.71	36.74	36.76	36.78	36.80	36.82	36.85	36.86	36.88	36.90
9	% CHANGE, AVG WEEKLY HOURS	-0.72	0.29	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19
10	COMPENSATION OF EMPLOY	61.30	62.51	63.87	65.72	67.57	69.44	71.38	73.44	75.65	77.98	80.36	82.97	85.64
11	% CHANGE, COMP OF EMP	8.95	8.15	8.95	12.11	11.73	11.53	11.68	12.08	12.54	12.91	13.40	13.65	13.50
12	COMPENSATION PER MANHO	7.19	7.26	7.34	7.87	7.60	7.72	7.85	7.99	8.13	8.29	8.44	8.61	8.78
13	% CHANGE, COMP PER M	5.72	4.01	4.48	7.44	7.02	6.77	6.84	7.12	7.49	7.75	7.53	8.32	8.14
14														
15	SECTOR PRICE	126.06	128.35	129.37	130.77	132.44	134.26	136.24	138.36	140.59	142.76	144.91	147.19	149.49
16	% CHANGE, SECTOR PRI	4.75	4.78	3.20	4.41	5.21	5.59	6.06	6.36	6.60	6.52	6.15	6.44	6.39
17	REAL INVESTMENT, PLANT	15.74	16.42	16.93	17.54	18.17	18.78	19.35	19.94	20.27	20.62	21.16	21.29	21.62
18	% CHANGE, INVEST, PL	-4.15	18.38	13.05	15.24	15.06	14.09	17.64	8.18	6.82	7.06	10.83	2.44	6.34
19	USER COST OF CAPITAL	17.33	17.89	18.67	19.11	19.73	20.33	20.82	21.24	21.62	22.12	22.55	23.32	24.06
20														
21														
22														
23														
24														
25														
26	SERVICES													
27	REAL OUTPUT	168.38	165.60	165.72	167.31	168.97	170.55	172.28	173.99	175.68	177.41	179.29	180.78	182.30
28	% CHANGE, REAL OUTPUT	4.08	6.27	5.29	3.90	4.01	3.81	4.10	4.04	3.94	4.00	4.31	3.35	3.42
29	MANHOURS	26.84	26.55	26.79	27.08	27.37	27.65	27.93	28.20	28.48	28.76	29.03	29.31	29.57
30	% CHANGE, MANHOURS	2.33	1.64	3.66	4.42	4.30	4.18	4.11	4.04	3.97	3.92	3.79	3.69	3.69
31	EMPLOYMENT	15.21	15.43	15.54	15.85	15.76	15.88	16.01	16.13	16.26	16.40	16.53	16.67	16.81
32	% CHANGE, EMPLOYMENT	3.36	6.02	2.80	2.88	2.97	3.03	3.12	3.20	3.26	3.32	3.42	3.50	3.56
33	AVERAGE WEEKLY HOURS	33.93	33.08	33.15	33.27	33.38	33.47	33.55	33.62	33.68	33.73	33.77	33.80	33.83
34	% CHANGE, AVG WEEKLY HOURS	-1.19	-4.13	0.24	1.49	1.29	1.11	0.96	0.82	0.69	0.58	0.48	0.39	0.32
35	COMPENSATION OF EMPLOY	165.20	169.60	174.65	179.51	184.69	189.63	194.82	200.04	205.37	210.84	216.65	222.06	228.23
36	% CHANGE, COMP OF EMP	11.31	11.08	12.87	11.59	12.06	11.13	11.40	11.16	11.09	11.10	11.87	10.34	11.60
37	COMPENSATION PER MANHO	6.25	6.39	6.52	6.63	6.75	6.86	6.98	7.09	7.21	7.33	7.44	7.58	7.72
38	% CHANGE, COMP PER M	8.60	9.28	8.49	8.86	7.44	6.67	7.01	6.84	6.85	6.91	7.27	6.31	7.63
39														
40														
41	SECTOR PRICE	142.55	145.74	148.51	150.46	152.52	154.25	156.08	157.93	159.87	161.76	163.88	165.78	168.28
42	% CHANGE, SECTOR PRI	6.47	9.27	7.82	5.34	5.61	4.62	4.83	4.83	5.00	4.80	5.35	4.72	6.15
43	REAL INVESTMENT, PLANT	15.74	16.42	16.93	17.54	18.17	18.78	19.35	19.94	20.27	20.62	21.16	21.29	21.62
44	% CHANGE, INVEST, PL	-4.15	18.38	13.05	15.24	15.06	14.09	17.64	8.18	6.82	7.06	10.83	2.44	6.34
45	USER COST OF CAPITAL	17.33	17.89	18.67	19.11	19.73	20.33	20.82	21.24	21.62	22.12	22.55	23.32	24.06

THE N H A R T I U M Q U A R T E R L Y M O D E L M A K K 4.6
SPECIAL UNR FORECAST: OCTOBER 1977

LINE VAR LABEL	I T E M	1977,2	1977,3	1977,4	1978,1	1978,2	1978,3	1978,4	1979,1	1979,2	1979,3	1979,4	1980,1	1980,2
MINI-SALE AND RETAIL TRADE														
1	B REAL OUTPUT	224.07	225.21	224.00	230.07	232.28	234.26	236.57	239.15	241.17	243.40	245.77	247.35	248.80
2	XNR	1.151	2.05	5.06	3.68	3.90	3.44	0.00	4.41	1.95	1.75	1.96	2.56	2.40
3	XNR	31.601	31.72	31.81	31.90	32.00	32.09	32.19	32.30	32.41	32.52	32.63	32.72	32.80
4	MANHOURS	3.761	0.74	1.13	1.16	1.22	1.19	1.27	1.31	1.34	1.36	1.37	1.37	1.37
5	X CHANGE, MANHOURS	18.251	18.33	18.42	18.50	18.59	18.68	18.76	18.86	18.95	19.05	19.14	19.23	19.31
6	EMPLOYMENT	3.341	2.34	1.85	1.85	1.90	1.86	1.92	2.04	1.98	1.94	2.02	1.83	1.83
7	X CHANGE, EMPLOYMENT	33.401	33.27	33.21	33.15	33.10	33.04	32.99	32.94	32.89	32.83	32.78	32.73	32.68
8	MANHOURS	4.401	1.57	-0.70	-0.68	-0.66	-0.65	-0.64	-0.63	-0.62	-0.61	-0.60	-0.59	-0.58
9	MANHOURS	191.701	191.92	190.10	202.57	206.49	210.40	214.40	218.70	223.13	227.63	232.44	237.56	242.44
10	COMPENSATION OF EMP	10.441	6.88	6.69	9.33	7.98	7.78	7.83	8.21	8.36	8.70	9.11	9.11	8.88
11	X CHANGE, COMP OF EMP	6.061	6.15	6.23	6.35	6.45	6.56	6.66	6.77	6.88	7.01	7.12	7.26	7.39
12	COMPENSATION PER MANHOUR	6.441	6.10	5.49	8.08	6.68	6.51	6.48	6.78	6.93	7.26	6.88	7.84	7.42
13	X CHANGE, COMP PER M	186.061	188.74	150.27	151.77	153.48	155.39	157.14	159.07	160.94	162.91	164.85	167.25	169.54
14	SECTION PRICE	9.571	7.57	4.15	4.07	4.57	5.09	4.58	5.01	4.77	4.98	4.85	5.96	5.60
15	XNR	15.741	16.42	16.93	17.54	18.17	18.78	19.55	19.94	20.27	20.62	21.16	21.29	21.62
16	IACM	-8.151	18.38	13.05	15.24	15.06	14.09	17.64	8.18	6.82	7.06	10.83	2.44	6.34
17	USER COST OF CAPITAL	17.331	17.49	18.67	19.11	19.73	20.33	20.82	21.24	21.62	22.12	22.55	23.12	24.06
AGRICULTURE														
26	XAG	41.001	43.89	43.67	42.01	42.30	43.98	44.11	43.17	44.10	44.10	44.30	44.32	44.34
27	XAG	-7.431	30.26	-1.97	-14.38	3.63	15.93	1.17	-8.20	8.87	0.72	1.12	0.12	0.18
28	REAL OUTPUT	3.331	3.22	3.15	3.08	3.04	3.03	3.00	2.96	2.94	2.91	2.89	2.86	2.83
29	MANHOURS	33.061	12.35	-8.02	-8.95	-4.67	-1.50	-3.77	-5.37	-2.55	-3.79	-3.66	-3.77	-3.73
30	LABOR FORCE	11.501	11.15	10.94	10.69	10.74	10.96	11.13	11.12	11.26	11.39	11.53	11.66	11.78
31	COMPENSATION OF EMP	11.151	11.66	-7.23	-8.77	1.69	8.41	6.47	-0.49	5.21	4.57	5.24	4.56	4.27
32	X CHANGE, COMP OF EMP	3.461	3.46	3.47	3.47	3.53	3.61	3.71	3.75	3.83	3.91	3.99	4.08	4.16
33	COMPENSATION PER MANHOUR	-16.461	0.80	0.86	0.20	6.67	10.07	10.65	5.15	7.97	8.68	9.24	8.67	8.10
34	X CHANGE, COMP PER M	142.901	130.15	130.97	130.21	132.00	133.60	136.19	128.44	131.39	130.73	130.79	130.59	145.65
35	SECTION PRICE	-0.041	-31.19	2.54	-2.29	5.60	4.95	7.97	-20.84	9.51	24.27	0.17	-0.58	22.01
36	REAL INVESTMENT, PLANT	10.001	9.88	9.78	9.73	9.71	9.76	9.88	9.99	10.00	10.01	10.01	10.02	10.06
37	X CHANGE, REAL INVE	2.651	-4.68	-3.85	-2.07	-0.89	2.19	4.81	4.52	0.63	0.16	0.01	0.54	1.52

REFUGALATED INDUSTRIES

TRANSPORTATION														
4 XRG1	B	REAL OUTPUT	50.56	51.19	51.48	52.05	52.61	53.34	54.06	54.75	55.48	56.12	56.81	57.47
5 XRG1	H	% CHANGE, REAL OUTPUT	11.22	0.01	5.07	4.50	4.37	5.67	5.52	5.24	5.44	6.18	5.52	4.74
6 PYRG1	H	SECTION PRICE	135.40	137.06	140.74	142.05	144.92	146.91	148.90	150.91	152.93	154.00	156.00	158.79
7 PYRG1	H	% CHANGE, SECTOR PRI	5.33	5.00	6.50	6.13	5.93	5.60	5.53	5.50	5.46	5.00	5.25	5.19
8 IARG1	B	REAL INVESTMENT, PLANT	4.82	4.76	4.81	5.04	5.53	5.82	6.14	6.48	6.82	7.14	7.45	7.70
9 IARG1	H	% CHANGE, REAL INVEST	-21.20	-5.27	4.69	21.00	20.40	22.98	24.22	22.32	20.29	18.30	18.23	
10 YARG1	I	USER COST OF CAPITAL	18.23	19.26	21.12	20.73	19.97	20.79	21.31	21.68	22.20	23.70	23.57	24.54
11 NIARG1	I	CAPITAL STOCK	62.18	62.07	61.92	61.94	62.01	62.16	62.38	62.68	63.05	63.50	64.01	64.58

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	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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GENERAL REGULATION (TRANSPORTATION)

GENERAL REGULATIONS + UTILITIES)													
	+ COMMUNICATIONS + UTILITIES)												
B	MANHOURS-----	9.561	9.71	9.83	9.93	10.01	10.08	10.14	10.19	10.24	10.28	10.31	10.33
A	X CHANGE MANHOURS---	1.391	4.05	5.14	4.18	3.34	2.79	2.42	2.04	1.80	1.69	1.14	0.88
A	EMPLOYMENT-----	4.581	4.63	4.67	4.70	4.73	4.75	4.77	4.79	4.80	4.82	4.83	4.84
B	X CHANGE, EMPLOYMENT	2.061	3.13	3.23	2.69	2.18	1.89	1.71	1.50	1.39	1.37	0.93	0.72
I	AVERAGE WEEKLY HOURS--	40.131	40.29	40.44	40.62	40.74	40.83	40.90	40.95	41.00	41.03	41.05	41.06
I	X CHANGE, AVG WEEKLY H	0.661	0.88	1.05	1.45	1.13	0.89	0.69	0.53	0.41	0.31	0.21	0.14
I	COMPENSATION (IF EMPLOY	89.601	92.17	94.74	98.19	104.31	107.13	110.05	113.00	116.07	119.02	122.28	125.39
I	X CHANGE, COMP OF EMP	11.981	11.96	11.66	15.36	13.53	12.19	11.24	11.36	11.17	11.33	10.55	11.41
A	COMPENSATION PER MANHO	9.371	9.59	9.76	9.99	10.21	10.42	10.63	10.85	11.09	11.34	11.86	12.14
A	X CHANGE, COMP PER M	10.451	9.52	7.32	9.73	8.97	8.56	8.22	8.73	8.94	9.36	8.71	10.16
													9.63

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TABLE 20.00 INDUSTRIAL SECTOR DETAIL

LINE	VAR	LABEL	I F E A													
			1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2	
1		GOVERNMENT														
2	XGV	REAL OUTPUT----	164.54	165.98	165.72	166.13	166.96	167.78	168.82	169.56	170.22	170.84	171.85	172.58	173.31	
3	XGV	% CHANGE, REAL OUTPUT	0.561	1.31	1.56	1.00	2.00	1.98	2.50	1.77	1.57	1.57	2.28	1.71	1.70	
4	MMTTGV	MANNHOUS----	31.461	31.72	31.97	32.18	32.39	32.59	32.80	33.99	33.16	33.32	33.51	33.70	33.86	
5	MMTTGV	% CHANGE, MANNHOUS----	2.981	3.38	3.18	2.63	2.61	2.59	2.58	2.30	2.03	2.02	2.27	2.25	2.24	
6	MEETGV	EMPLOYMENT, FEDERAL----	2.731	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	
7	MEETGV	% CHANGE, EMPLOYMENT, FEDERAL----	0.491	-0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	MEETGV	EMPLOYMENT, STATE & LO	12.401	12.53	12.65	12.75	12.85	12.95	13.05	13.14	13.22	13.30	13.39	13.48	13.57	
9	MEETGV	% CHANGE, EMPLOYMENT, STATE & LO	3.081	4.33	3.89	3.20	3.17	3.15	3.12	2.79	2.86	2.84	2.73	2.72	2.70	
10	MMTTGV	AVERAGE WEEKLY HOURS----	40.001	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	
11	MMTTGV	% CHANGE, AVG WKLY H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	MUCGV	COMPENSATION OF EMPLOY	227.901	231.47	239.27	242.51	245.76	249.03	252.16	260.38	263.43	266.53	275.08	278.31	281.57	
13	MUCGV	% CHANGE, COMP OF EMP	5.261	6.41	14.18	5.52	5.98	5.43	13.70	5.05	4.83	4.80	13.45	4.79	4.76	
14	MRCGVGS	COMPENSATION PER MANNHO	13.491	13.60	14.60	14.70	14.90	14.90	16.00	16.10	16.20	16.30	17.50	17.60	17.70	
15	MRCGVGS	% CHANGE, COMP PER M	0.861	3.29	32.82	2.77	2.75	2.73	32.96	2.52	2.51	2.49	32.86	2.51	2.29	
16	MRCGVGS	COMPENSATION PER MANNHO	11.101	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	12.00	12.10	12.20	12.30	
17	MRCGVGS	% CHANGE, COMP PER M	3.991	3.71	3.62	3.59	3.55	3.52	3.49	3.46	3.43	3.40	3.38	3.35	3.32	
18	PGV	SECTION PRICE, TOTAL----	141.081	142.83	147.18	148.96	150.38	151.81	155.91	157.35	158.80	160.25	164.59	166.05	167.52	
19	PGV	% CHANGE, SEC PRICE, T	5.451	5.07	12.73	4.93	3.08	3.86	11.26	3.73	3.73	3.72	11.28	3.59	3.58	

BEST AVAILABLE COPY

THE WHARTON QUARTERLY MODEL MARK 4.6 SPECIAL OMP FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITLH	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
MANUFACTURING DURABLES															
1			231.02	234.55	230.19	241.28	245.08	248.08	250.96	253.64	195.62	207.15	217.60	229.19	245.16
2	XPRD	H	7.34	6.26	6.36	5.29	6.45	8.99	4.73	4.33	8.32	5.49	5.04	5.33	6.09
3	X-ED	B	27.03	27.26	27.49	27.70	27.92	28.12	28.30	28.45	28.43	25.46	26.23	26.94	27.81
4	MLTTFM	H	3.30	3.37	3.44	3.07	3.28	2.86	2.53	2.20	4.84	4.22	3.01	2.72	3.22
5	MLTTFM	H	12.74	12.84	12.94	13.04	13.14	13.23	13.32	13.40	11.47	11.91	12.34	12.69	13.09
6	MEETTFM	B	3.07	3.16	3.24	3.03	3.16	2.90	2.68	2.37	3.99	3.90	3.60	2.85	3.09
7	MEETTFM	H	40.81	40.84	40.86	40.86	40.87	40.87	40.86	40.84	40.96	41.09	40.86	40.81	40.86
8	WHPHFD	I	0.23	0.21	0.19	0.04	0.12	-0.03	-0.11	-0.17	0.83	0.31	-0.55	-0.13	0.13
9	WHPHFD	H	209.00	296.54	305.01	313.69	322.75	331.12	340.18	349.53	204.30	230.42	256.02	284.83	310.14
10	WRCFDS	I	12.19	10.84	11.93	11.08	12.06	10.79	11.91	11.32	13.61	12.69	11.01	11.25	11.69
11	WRCFDS	H	10.69	10.88	11.10	11.32	11.56	11.77	12.02	12.28	8.36	9.06	9.76	10.57	11.44
12	WRCFDS	H	8.60	7.23	8.21	8.54	8.50	7.70	8.66	8.92	8.33	8.32	7.76	8.31	8.21
13	WRCFDS	H	171.70	175.03	170.25	181.52	184.87	188.21	191.60	195.04	139.90	148.33	150.09	170.11	181.21
14			8.14	7.78	7.57	7.55	7.44	7.44	7.40	7.37	5.21	6.02	6.58	7.61	7.70
15			25.20	25.66	26.17	26.69	27.21	27.71	28.19	28.63	19.00	21.55	23.27	24.98	26.95
16	FXMFD	B	7.58	7.49	8.21	8.08	8.13	7.48	7.16	6.80	12.34	12.97	7.98	7.36	7.85
17	FXMFD	H	21.75	22.22	22.95	23.75	24.84	26.00	26.90	26.97	17.66	19.71	20.47	21.66	24.07
18	FXMFD	H	91.16	91.65	92.14	92.43	92.95	93.22	93.44	93.57	87.44	88.88	89.77	90.90	92.69
19	FXMFD	H	183.17	185.47	187.85	190.30	192.82	195.42	198.07	200.70	160.01	166.09	173.61	182.08	191.60
20			143.33	144.59	145.61	146.53	148.00	149.08	149.87	150.65	127.05	131.76	137.68	142.68	147.31
21	XMFN	H	4.50	3.56	2.06	2.55	4.08	2.95	2.13	2.09	2.22	3.71	4.49	3.61	3.27
22	XMFN	B	17.17	17.19	17.20	17.19	17.20	17.20	17.19	17.17	16.84	16.87	17.03	17.16	17.20
23	MLTTFM	B	0.53	0.45	0.21	0.04	0.15	0.01	-0.29	-0.51	2.69	1.38	0.98	0.75	0.24
24	MLTTFM	H	8.20	8.29	8.30	8.30	8.31	8.31	8.32	8.31	8.07	8.13	8.20	8.27	8.31
25	MEETTFM	B	0.66	0.60	0.44	0.25	0.33	0.22	0.01	-0.18	1.80	0.72	0.89	0.81	0.48
26	MEETTFM	H	39.09	39.07	39.05	39.82	39.81	39.78	39.75	39.72	39.63	39.49	39.92	39.90	39.82
27	WHPHFD	I	-0.13	-0.15	-0.22	-0.29	-0.18	-0.21	-0.30	-0.31	0.87	0.66	0.69	-0.06	-0.20
28	WHPHFD	H	140.40	151.20	154.63	156.75	159.78	162.91	166.30	168.80	116.77	126.29	136.01	147.09	158.52
29	WRCFDS	I	8.30	8.00	9.13	5.61	7.05	8.08	9.10	5.41	11.42	8.16	7.69	8.15	7.77
30	WRCFDS	H	0.64	0.80	0.99	0.12	9.29	9.47	9.69	9.83	7.02	7.49	7.99	8.57	9.22
31	WRCFDS	H	7.72	7.52	8.90	5.65	7.79	8.07	9.42	6.21	8.47	6.69	6.65	7.55	7.52
32			161.36	163.67	166.10	168.53	170.96	173.42	175.98	178.48	138.83	148.48	150.42	160.03	169.75
33	FXMFD	B	6.39	5.05	6.07	5.98	5.90	5.80	6.05	5.79	5.36	4.21	4.11	6.25	6.07
34	FXMFD	H	25.89	26.28	26.57	26.87	27.15	27.38	27.61	27.79	22.20	23.46	24.50	25.72	26.99
35	FXMFD	H	5.72	5.59	5.21	4.56	4.14	3.54	3.32	2.63	7.28	5.68	4.44	4.97	4.96
36	FXMFD	H	23.53	24.14	24.75	25.39	25.99	26.60	27.37	28.23	19.94	21.21	22.60	23.37	25.68
37	FXMFD	H	94.11	94.06	93.80	93.68	93.70	93.58	93.34	93.10	93.68	94.22	94.41	94.13	93.71
38	FXMFD	H	215.48	217.70	219.95	222.23	224.54	226.86	229.19	231.51	190.65	198.14	206.03	214.42	223.40
39			161.36	163.67	166.10	168.53	170.96	173.42	175.98	178.48	138.83	148.48	150.42	160.03	169.75
40	FXMFD	B	6.39	5.05	6.07	5.98	5.90	5.80	6.05	5.79	5.36	4.21	4.11	6.25	6.07
41	FXMFD	H	25.89	26.28	26.57	26.87	27.15	27.38	27.61	27.79	22.20	23.46	24.50	25.72	26.99
42	FXMFD	H	5.72	5.59	5.21	4.56	4.14	3.54	3.32	2.63	7.28	5.68	4.44	4.97	4.96
43	FXMFD	H	23.53	24.14	24.75	25.39	25.99	26.60	27.37	28.23	19.94	21.21	22.60	23.37	25.68
44	FXMFD	H	94.11	94.06	93.80	93.68	93.70	93.58	93.34	93.10	93.68	94.22	94.41	94.13	93.71
45	FXMFD	H	215.48	217.70	219.95	222.23	224.54	226.86	229.19	231.51	190.65	198.14	206.03	214.42	223.40

MANUFACTURING NONDURABLES

29	XMFN	H	143.33	144.59	145.61	146.53	148.00	149.08	149.87	150.65	127.05	131.76	137.68	142.68	147.31
30	XMFN	H	4.50	3.56	2.06	2.55	4.08	2.95	2.13	2.09	2.22	3.71	4.49	3.61	3.27
31	MLTTFM	B	17.17	17.19	17.20	17.19	17.20	17.20	17.19	17.17	16.84	16.87	17.03	17.16	17.20
32	MLTTFM	B	0.53	0.45	0.21	0.04	0.15	0.01	-0.29	-0.51	2.69	1.38	0.98	0.75	0.24
33	MEETTFM	B	0.66	0.60	0.44	0.25	0.33	0.22	0.01	-0.18	1.80	0.72	0.89	0.81	0.48
34	MEETTFM	H	39.09	39.07	39.05	39.82	39.81	39.78	39.75	39.72	39.63	39.49	39.92	39.90	39.82
35	WHPHFD	I	-0.13	-0.15	-0.22	-0.29	-0.18	-0.21	-0.30	-0.31	0.87	0.66	0.69	-0.06	-0.20
36	WHPHFD	H	140.40	151.20	154.63	156.75	159.78	162.91	166.30	168.80	116.77	126.29	136.01	147.09	158.52
37	WRCFDS	I	8.30	8.00	9.13	5.61	7.05	8.08	9.10	5.41	11.42	8.16	7.69	8.15	7.77
38	WRCFDS	H	0.64	0.80	0.99	0.12	9.29	9.47	9.69	9.83	7.02	7.49	7.99	8.57	9.22
39	WRCFDS	H	7.72	7.52	8.90	5.65	7.79	8.07	9.42	6.21	8.47	6.69	6.65	7.55	7.52
40			161.36	163.67	166.10	168.53	170.96	173.42	175.98	178.48	138.83	148.48	150.42	160.03	169.75
41	FXMFD	B	6.39	5.05	6.07	5.98	5.90	5.80	6.05	5.79	5.36	4.21	4.11	6.25	6.07
42	FXMFD	H	25.89	26.28	26.57	26.87	27.15	27.38	27.61	27.79	22.20	23.46	24.50	25.72	26.99
43	FXMFD	H	5.72	5.59	5.21	4.56	4.14	3.54	3.32	2.63	7.28	5.68	4.44	4.97	4.96
44	FXMFD	H	23.53	24.14	24.75	25.39	25.99	26.60	27.37	28.23	19.94	21.21	22.60	23.37	25.68
45	FXMFD	H	94.11	94.06	93.80	93.68	93.70	93.58	93.34	93.10	93.68	94.22	94.41	94.13	93.71
46	FXMFD	H	215.48	217.70	219.95	222.23	224.54	226.86	229.19	231.51	190.65	198.14	206.03	214.42	223.40

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL UNR FORECAST, OCTOBER 1977

TABLE 20.00 INDUSTRIAL SECTOR DETAIL

LINE VAR LABEL	I T E M	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
M I N I N G														
1	H REAL OUTPUT----	25.12	25.15	25.20	25.16	25.10	25.00	24.49	24.45	20.83	23.46	24.54	25.07	25.11
2	X CHANGE, REAL OUTPUT	1.12	0.56	0.68	-0.05	-0.74	-1.51	-1.75	-0.63	0.26	12.67	4.58	2.16	0.18
3	H MANHOURS----	2.16	2.15	2.14	2.13	2.11	2.09	2.07	2.05	1.93	2.10	2.17	2.17	2.12
4	X CHANGE, MANHOURS----	-1.39	-1.04	-2.09	-2.63	-3.05	-3.47	-3.79	-3.64	10.87	8.04	3.23	-0.18	-2.19
5	H EMPLOYMENT----	0.98	0.98	0.97	0.97	0.96	0.95	0.95	0.94	0.84	0.93	0.97	0.98	0.96
6	X CHANGE, EMPLOYMENT	-0.57	-1.11	-1.50	-2.05	-2.50	-2.95	-3.32	-3.30	7.94	9.70	8.76	0.87	-1.50
7	H AVERAGE WEEKLY HOURS----	42.51	42.43	42.37	42.30	42.28	42.19	42.13	42.11	43.94	43.68	43.00	42.56	42.27
8	X CHANGE, AVERAGE WEEKLY HOURS	-0.83	-0.73	-0.59	-0.60	-0.56	-0.54	-0.49	-0.27	2.73	-0.78	-1.46	-1.04	-0.67
9	H COMPENSATION OF EMPLOY	25.09	25.40	25.76	26.11	26.42	26.67	26.96	27.27	17.58	20.77	23.08	24.85	26.24
10	X CHANGE, COMP OF EMP	6.85	5.11	5.70	5.50	4.96	3.82	4.33	4.80	17.58	18.14	10.95	7.83	5.62
11	H COMPENSATION PER MANHOUR	11.59	11.79	12.02	12.26	12.51	12.74	13.00	13.27	9.09	9.87	10.61	11.46	12.38
12	X CHANGE, COMP PER MANHOUR	8.36	7.08	7.96	8.35	8.27	7.56	8.44	8.76	6.07	8.55	7.51	8.04	7.99
F I R M I N G														
13	F SECTION PRICE----	405.90	414.70	434.00	442.50	451.10	459.80	461.20	490.50	237.11	294.95	300.37	403.85	446.85
14	X CHANGE, SECTION PRICE	3.32	8.96	19.96	8.07	8.00	7.94	19.96	7.96	10.20	28.39	15.40	10.65	10.65
15	H REAL INVESTMENT, PLANT	3.85	3.93	4.01	4.04	4.09	4.11	4.12	4.12	3.08	3.33	3.62	3.83	4.06
16	X CHANGE, REAL INVEST	7.46	6.49	0.51	5.35	4.53	2.26	0.74	0.29	6.76	8.06	8.01	5.71	6.20
17	H USEN COST OF CAPITAL----	18.41	18.76	19.16	19.54	19.91	20.29	20.72	21.12	16.39	15.73	16.81	18.23	19.72
18	X CHANGE, COST OF CAPITAL	94.73	93.98	93.21	92.16	91.10	89.96	88.82	88.04	91.36	96.78	96.96	95.03	91.61
19	H CAPITAL STOCK----	28.46	28.00	29.16	29.51	29.87	30.23	30.58	30.93	28.90	25.85	27.01	28.30	29.69
C O N T R A C T C O N S T R U C T I O N														
20	H REAL OUTPUT----	62.49	62.81	63.19	63.63	64.15	64.67	65.10	65.46	59.30	61.59	61.56	62.37	63.91
21	X CHANGE, REAL OUTPUT	2.02	2.03	2.09	2.77	3.35	3.23	2.70	2.26	9.72	3.86	-0.04	1.31	2.47
22	H MANHOURS----	7.67	7.69	7.71	7.73	7.76	7.79	7.81	7.83	7.40	7.62	7.62	7.66	7.75
23	X CHANGE, MANHOURS----	0.91	0.92	1.12	1.25	1.51	1.46	1.22	1.02	6.85	2.95	-0.02	0.59	1.11
24	H EMPLOYMENT----	4.17	4.19	4.22	4.24	4.26	4.29	4.31	4.34	3.83	3.97	4.06	4.16	4.25
25	X CHANGE, EMPLOYMENT	2.29	2.29	2.30	2.32	2.34	2.37	2.38	2.39	6.49	3.72	2.38	2.30	2.31
26	H AVERAGE WEEKLY HOURS----	35.30	35.26	35.16	35.06	34.99	34.92	34.82	34.70	37.10	36.91	36.05	35.45	35.03
27	X CHANGE, AVERAGE WEEKLY HOURS	-1.34	-1.34	-1.15	-1.04	-0.81	-0.89	-1.13	-1.33	0.33	-0.72	-2.34	-1.67	-1.17
28	H COMPENSATION OF EMPLOY	85.43	87.33	89.71	91.94	94.40	96.88	99.73	102.29	62.23	71.73	77.14	84.39	93.23
29	X CHANGE, COMP OF EMP	10.11	9.21	11.35	10.35	11.11	10.96	12.30	10.66	14.14	15.25	7.55	9.40	10.47
30	H COMPENSATION PER MANHOUR	11.18	11.36	11.64	11.89	12.16	12.44	12.77	13.06	8.40	9.42	10.13	11.02	12.03
31	X CHANGE, COMP PER MANHOUR	9.11	8.22	10.12	8.98	9.45	9.37	10.95	9.54	6.70	12.07	7.56	8.75	9.25
P R O C E S S I N G														
32	P SECTION PRICE----	179.20	182.32	184.21	189.55	192.98	196.48	200.82	204.61	182.08	158.59	168.80	177.44	191.31
33	X CHANGE, SECTION PRICE	7.79	7.18	8.82	7.36	7.44	7.45	9.12	7.78	5.86	8.84	6.60	1.67	7.82
34	H REAL INVESTMENT, PLANT	22.10	22.55	23.02	23.47	23.91	24.20	24.43	24.58	16.25	18.51	20.50	21.89	23.65
35	X CHANGE, INVEST, PLANT	4.15	8.83	8.65	8.05	7.61	5.05	3.75	2.59	7.34	13.91	10.75	6.77	8.05
36	H USEN COST OF CAPITAL----	24.85	25.61	26.37	27.07	27.69	28.31	28.96	29.64	17.67	20.00	21.88	24.46	27.36

THE WHARF QUARTERLY MODEL MARK 4.6 SPECIAL UNK FORECAST: OCTOBER 1977

TABLE 20.00 INDUSTRIAL SECTION DETAIL

LINE VAR LABEL	I	E	M	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
FINANCE, INSURANCE, REAL ESTATE																
1																
2 XFI	B			241.23	243.15	244.91	247.07	248.80	250.26	251.72	252.97	220.04	229.28	237.92	243.98	
3 XFI	R			4.33	3.57	2.93	3.56	2.83	2.37	2.17	6.82	5.25	4.20	3.77	3.19	
4 XFI	H			9.00	10.00	10.15	10.39	10.52	10.65	10.79	8.58	8.94	9.34	9.82	10.32	
5 XFI	B			5.06	5.12	5.16	5.23	5.23	5.21	5.11	4.29	4.25	4.63	4.93	5.15	
6 XFI	H			5.14	5.21	5.27	5.34	5.40	5.47	5.54	4.50	4.64	4.88	5.11	5.37	
7 XFI	H			4.87	4.94	4.99	5.01	5.09	5.08	5.06	4.24	4.03	4.34	4.71	4.97	
8 XFI	I			36.92	36.93	36.95	36.98	36.99	37.00	37.01	36.67	36.75	36.83	36.91	36.97	
9 XFI	I			0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.05	0.21	0.20	0.16	
10 XFI	I			91.20	91.20	91.19	91.19	91.19	91.19	91.19	91.19	61.92	68.53	76.86	87.04	
11 XFI	I			13.24	13.54	13.78	13.98	14.18	14.38	14.58	14.78	10.42	10.67	12.16	13.25	
12 XFI	B			0.95	0.92	0.90	0.87	0.84	0.81	0.78	7.22	7.66	8.21	8.86	9.58	
13 XFI	H			7.78	8.00	8.20	8.31	8.41	8.51	8.61	5.88	6.15	6.42	6.70	7.04	
14																
15																
16 XFI	H			151.62	153.89	156.20	158.81	161.26	163.89	166.62	169.40	127.49	133.43	141.66	150.54	
17 XFI	H			5.03	6.12	6.30	6.61	6.33	6.67	6.84	3.92	4.65	6.17	6.27	6.32	
18 XFI	B			22.10	22.55	23.02	23.47	23.91	24.28	24.63	16.25	18.51	20.50	21.89	23.65	
19 XFI	H			9.15	8.43	8.65	8.95	9.21	9.45	9.65	7.34	13.91	10.75	6.77	8.05	
20 XFI	I			24.85	25.61	26.37	27.07	27.69	28.31	28.96	29.64	17.67	20.00	21.88	24.46	
21																
22																
23																
24																
25																
SERVICES																
26 XSV	H			184.12	185.00	187.36	188.83	190.43	191.90	193.17	194.43	162.12	169.78	176.59	183.25	
27 XSV	H			4.05	3.70	3.30	3.17	3.04	3.12	2.67	2.65	6.47	4.72	4.01	3.77	
28 XSV	H			29.84	30.11	30.37	30.63	30.89	31.14	31.39	31.63	26.52	27.50	28.62	29.71	
29 XSV	H			3.69	3.64	3.56	3.45	3.31	3.32	3.19	3.07	3.83	3.73	4.05	3.80	
30 XSV	H			16.45	17.10	17.24	17.38	17.52	17.67	17.80	17.94	15.31	15.83	16.33	16.88	
31 XSV	H			3.42	3.43	3.40	3.34	3.32	3.26	3.15	3.04	4.56	3.35	3.19	3.38	
32 XSV	H			33.85	33.87	33.88	33.89	33.90	33.90	33.90	33.91	33.90	33.42	33.70	33.84	
33 XSV	I			0.26	0.20	0.15	0.11	0.08	0.05	0.04	0.03	-0.69	0.36	0.84	0.41	
34 XSV	I			234.54	240.59	247.01	254.08	261.53	268.87	276.25	283.66	167.59	187.16	208.22	231.35	
35 XSV	I			11.52	10.72	11.11	11.95	12.26	11.71	11.43	11.48	12.03	11.60	11.25	11.11	
36 XSV	H			7.86	7.99	8.13	8.29	8.47	8.61	8.80	8.98	6.32	6.80	7.27	7.79	
37 XSV	H			7.55	6.83	7.29	8.21	8.56	8.12	7.98	8.16	8.68	7.66	6.92	7.04	
38 XSV	H															
39																
40																
41 XSV	H			171.00	173.54	176.24	179.47	182.84	186.08	189.33	192.72	164.20	153.33	160.86	169.65	
42 XSV	H			6.44	6.87	6.50	7.40	7.33	7.29	7.17	7.35	6.09	6.27	4.91	5.46	
43 XSV	H			22.10	22.55	23.02	23.47	23.91	24.28	24.63	24.98	16.25	18.51	20.50	21.89	
44 XSV	H			9.15	8.43	8.65	8.95	9.21	9.45	9.65	7.34	13.91	10.75	6.77	8.05	
45 XSV	I			24.85	25.61	26.37	27.07	27.69	28.31	28.96	29.64	17.67	20.00	21.88	24.46	

THE HARTMAN QUARTERLY MODEL MARK 4.6
SPECIAL OMM FORECAST, OCTOBER 1977

LINE VAR LABEL	1980.1	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
WHOLESALE AND RETAIL TRADE													
1 REAL OUTPUT	251.17	253.10	254.82	256.40	258.50	260.27	261.71	263.15	225.10	233.10	242.37	250.10	257.52
2 X CHANGE, REAL OUTPUT	3.07	3.10	2.76	2.50	3.44	2.64	2.22	2.22	2.60	3.61	3.69	3.19	2.97
3 MANHOURS	32.09	32.98	33.05	33.11	33.18	33.25	33.30	33.34	31.64	32.04	32.47	32.85	33.15
4 X CHANGE, MANHOURS	1.07	1.01	0.91	0.78	0.84	0.75	0.60	0.49	2.24	1.28	1.31	1.18	0.91
5 EMPLOYMENT	19.39	19.47	19.54	19.61	19.67	19.74	19.79	19.84	18.26	18.63	19.00	19.35	19.64
6 X CHANGE, EMPLOYMENT	1.69	1.62	1.51	1.36	1.39	1.29	1.12	0.98	3.22	2.02	1.97	1.83	1.50
7 AVERAGE WEEKLY HOURS	32.63	32.58	32.53	32.48	32.44	32.39	32.35	32.31	33.31	33.07	32.86	32.65	32.46
8 X CHANGE, AVG WEEKLY HOURS	-0.61	-0.60	-0.59	-0.57	-0.55	-0.53	-0.51	-0.49	-0.96	-0.72	-0.64	-0.63	-0.59
9 COMPENSATION OF EMPLOY	247.27	252.30	257.63	262.62	268.02	273.53	279.13	284.55	192.93	208.86	225.52	244.90	265.45
10 X CHANGE, COMP OF EMP	0.21	0.38	0.72	7.97	8.49	8.49	8.43	8.01	12.72	8.05	8.18	8.59	8.39
11 COMPENSATION PER MANHO	7.52	7.65	7.80	7.93	8.08	8.23	8.38	8.54	6.10	6.51	6.95	7.45	8.01
12 X CHANGE, COMP PER M	7.06	7.30	7.74	7.13	7.58	7.60	7.78	7.88	10.27	6.68	6.78	7.32	7.42
SECTION PRICE													
13 REAL OUTPUT	171.64	173.55	175.50	177.58	179.67	181.87	184.22	186.61	146.96	154.45	161.94	170.49	178.64
14 X CHANGE, SECTION PRICE	5.04	4.52	4.57	4.75	4.88	4.99	5.26	5.31	6.75	5.10	4.85	5.28	4.78
15 REAL INVESTMENT, PLANT	22.10	22.55	23.02	23.47	23.91	24.20	24.43	24.58	16.25	18.51	20.50	21.89	23.65
16 X CHANGE, INVEST, PL	9.15	8.43	8.65	8.05	7.61	5.05	3.75	2.59	7.34	13.91	10.75	6.77	8.05
17 USEFUL COST OF CAPITAL	24.85	25.61	26.37	27.07	27.69	28.31	28.96	29.64	17.67	20.00	21.88	24.46	27.36
AGRICULTURE													
18 REAL OUTPUT	48.47	48.51	48.55	48.57	48.66	48.69	48.70	48.73	42.63	43.12	43.94	44.41	44.62
19 X CHANGE, REAL OUTPUT	1.21	0.35	0.32	0.23	0.84	0.20	0.09	0.26	15.72	1.15	1.90	1.07	0.47
20 LABOR FORCE	2.81	2.78	2.76	2.73	2.71	2.68	2.66	2.64	3.20	3.04	2.93	2.82	2.72
21 X CHANGE, LABOR FORCE	-3.54	-3.65	-3.63	-3.62	-3.48	-3.54	-3.51	-3.42	-2.93	-5.00	-3.72	-3.63	-3.60
22 COMPENSATION OF EMPLOY	11.94	12.10	12.28	12.44	12.62	12.79	12.95	13.11	11.20	10.88	11.32	11.87	12.53
23 X CHANGE, COMP OF EMP	5.12	5.66	5.89	5.52	5.88	5.35	5.09	5.24	8.72	-2.84	4.07	4.84	5.57
24 COMPENSATION PER MANHO	4.25	4.35	4.45	4.56	4.66	4.77	4.87	4.98	3.50	3.58	3.87	4.21	4.61
25 X CHANGE, COMP PER M	9.10	9.67	9.86	9.47	9.70	9.22	8.91	8.97	12.03	2.27	6.09	8.79	9.52
SECTION PRICE													
26 REAL OUTPUT	145.71	149.85	149.74	152.11	153.20	157.11	156.96	157.41	136.73	133.00	134.34	144.95	153.06
27 X CHANGE, SECTION PRICE	0.17	11.84	-0.28	6.47	3.11	10.39	-0.38	6.39	-4.56	-2.73	1.80	7.90	5.80
28 REAL INVESTMENT, PLANT	10.12	10.15	10.19	10.22	10.24	10.24	10.23	10.19	9.90	9.77	10.00	10.09	10.22
29 X CHANGE, REAL INVE	2.34	1.51	1.45	1.20	0.83	-0.12	-0.55	-1.29	7.95	-1.29	2.37	0.86	1.35

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TABLE 20.00 INDUSTRIAL SECTION DETAIL

[illegible]

THE WHARTON QUARTERLY MODEL MARK 4.6
SPECIAL OMR FORECAST: OCTOBER 1977

LINE VAR LABEL		TABLE 20.00 INDUSTRIAL SECTOR DETAIL												1981	
		I T E M													
		1980.3 1980.4 1981.1 1981.2 1981.3 1981.4 1982.1 1982.2 1977 1978 1979 1980 1981													
		GOVERNMENT													
1	XGV	174.07	175.16	176.05	176.88	177.74	178.82	179.67	180.53	181.42	182.31	183.20	184.09	184.98	185.87
2	XGV	1.76	2.53	1.99	1.96	1.95	2.45	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91
3	XGV	1.76	2.53	1.99	1.96	1.95	2.45	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91
4	MLTIGV	34.07	34.28	34.49	34.69	34.90	35.11	35.32	35.53	35.74	35.95	36.16	36.37	36.58	36.79
5	MLTIGV	2.23	2.46	2.45	2.43	2.42	2.40	2.39	2.38	2.37	2.36	2.35	2.34	2.33	2.32
6	MLTIGV	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72
7	MLTIGV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	MLTIGV	13.66	13.76	13.86	13.96	14.06	14.16	14.26	14.36	14.46	14.56	14.66	14.76	14.86	14.96
9	MLTIGV	2.48	2.96	2.94	2.92	2.90	2.88	2.85	2.83	2.81	2.79	2.77	2.75	2.73	2.71
10	MLTIGV	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
11	MLTIGV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	MLTIGV	284.89	294.17	297.71	301.25	304.80	308.34	311.88	315.42	318.96	322.50	326.04	329.58	333.12	336.66
13	MLTIGV	4.80	13.69	4.90	4.84	4.61	13.53	4.65	4.62	4.62	4.62	4.62	4.62	4.62	4.62
14	MLTIGV	17.80	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	20.00	20.10	20.20	20.30
15	MLTIGV	2.28	32.57	2.11	2.10	2.09	32.14	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93
16	MLTIGV	12.40	12.50	12.60	12.70	12.80	12.90	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70
17	MLTIGV	3.29	3.26	3.24	3.21	3.19	3.16	3.14	3.11	3.11	3.11	3.11	3.11	3.11	3.11
18	MLTIGV	169.00	173.56	175.04	176.53	178.02	179.51	181.00	182.49	183.98	185.47	186.96	188.45	189.94	191.43
19	MLTIGV	3.58	11.24	3.45	3.45	3.44	11.18	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33

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THE MARTIN QUARTERLY MODEL MARK 4.6
SPECIAL ONR FORECAST, OCTOBER 1977

TABLE 21.00 FMB INDUSTRIAL PRODUCTION INDICES

LINE VAR LABEL	ITEM	1977.2	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	IP	137.01	137.0	139.6	141.4	143.4	145.1	146.8	148.5	150.2	151.9	153.6	155.2	156.8
2	IP	10.571	2.45	5.23	5.24	5.75	4.95	4.73	4.72	4.57	4.55	4.67	4.24	4.05
3	IP	130.0	130.0	139.0	141.6	143.6	145.4	147.2	149.0	150.8	152.5	154.4	156.1	157.7
4	IP	11.701	3.42	5.24	5.28	5.94	5.12	4.94	4.97	4.80	4.78	4.94	4.40	4.27
5	IP	129.21	131.1	133.2	135.3	137.6	141.4	143.2	146.9	148.6	150.1	151.8	153.6	155.2
6	IP	15.231	5.81	6.63	6.39	7.09	5.69	5.38	5.07	4.85	4.81	5.00	4.63	4.63
7	IP	147.91	148.0	149.2	150.7	152.3	153.9	155.5	157.4	159.2	161.0	162.8	164.7	166.2
8	IP	7.651	0.00	3.49	3.06	4.47	4.12	4.37	4.04	4.73	4.74	4.87	4.27	3.78
9	IP	137.21	136.8	138.5	140.2	141.6	142.9	144.0	145.1	146.1	147.1	148.0	148.9	149.8
10	IP	0.001	-1.29	5.09	4.99	4.29	3.66	3.15	2.66	2.83	2.79	2.59	2.45	2.39
11	IP	120.41	116.5	117.7	118.7	119.3	119.5	119.5	119.2	118.9	118.6	118.2	117.6	117.0
12	IP	13.821	-12.37	4.21	3.32	1.99	0.76	-0.09	-0.77	-0.95	-1.07	-1.51	-1.90	-2.09
13	IP	155.91	159.3	161.6	164.1	166.6	169.0	171.4	173.8	176.3	178.8	181.3	183.8	186.4
14	IP	-8.951	9.01	5.81	6.36	6.17	6.02	5.76	5.76	5.79	5.76	5.70	5.70	5.67

A PRODUCT OF MARTIN E.F.A., 4025 CHESTNUT ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.
THE MARTIN QUARTERLY MODEL MARK 4.6
SPECIAL ONR FORECAST, OCTOBER 1977

TABLE 21.00 FMB INDUSTRIAL PRODUCTION INDICES

LINE VAR LABEL	ITEM	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2	1977	1978	1979	1980	1981
1	IP	158.6	160.4	162.2	163.9	165.0	167.5	169.1	170.61	137.0	148.2	151.0	157.7	164.9
2	IP	4.69	4.71	4.65	4.30	4.54	4.21	3.85	3.531	5.57	5.23	4.76	4.43	4.52
3	IP	159.7	161.6	163.6	165.4	167.4	169.2	170.9	172.51	136.9	148.5	151.7	158.8	166.4
4	IP	5.01	5.03	4.96	4.56	4.84	4.47	4.07	3.711	5.74	5.50	4.99	4.68	4.81
5	IP	153.9	156.1	158.4	160.5	162.8	164.9	166.9	168.71	129.6	138.5	145.8	151.0	161.7
6	IP	5.73	5.84	5.94	5.50	5.78	5.26	4.86	4.461	6.49	6.08	5.27	4.95	5.67
7	IP	167.9	169.5	171.1	172.5	174.0	175.4	176.7	177.91	147.6	157.1	160.1	167.1	173.2
8	IP	4.06	3.98	3.66	3.33	3.58	3.41	3.01	2.701	4.77	3.72	4.61	4.33	3.69
9	IP	150.7	151.5	152.4	153.2	154.0	154.9	155.7	156.51	137.3	142.2	146.6	150.2	153.6
10	IP	2.29	2.28	2.27	2.24	2.20	2.14	2.08	2.121	4.35	3.54	3.07	2.50	2.26
11	IP	116.3	115.6	114.8	114.0	113.2	112.3	111.3	110.41	117.8	119.2	118.7	116.6	113.6
12	IP	-2.28	-2.46	-2.57	-2.79	-2.96	-3.14	-3.27	-3.411	3.13	1.21	-0.40	-1.78	-2.61
13	IP	188.9	191.5	194.2	196.8	199.6	202.3	205.0	207.71	159.1	167.8	177.6	187.7	198.2
14	IP	5.50	5.63	5.62	5.66	5.63	5.57	5.50	5.451	5.35	5.45	5.82	5.69	5.63

A PRODUCT OF MARTIN E.F.A., 4025 CHESTNUT ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

THE WASHINGTON QUARTERLY MODEL MARK 4.6
SPECIAL ONR FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITEM	22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS											
			1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	CCATB	W CAP CUIS ALLOW, ALL IND	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2	CCATF165+43	B CAP CUIS ALLOW, MEAL ES	0.19	0.19	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	CEDAP+VU	B PCE, USE AUTOS, PARTS.	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4	CEDAVND	B PCE DOMESTIC AUTOS-----	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
5	CEDAVR	B PCE RECREATIONAL VEH-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	CEDAVT	B PCE MEN & USED TRUCKS-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	CEDDF	B PCE, FURNITURE & HOUSEH	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
8	CEDD	B PERS CUIS EXPEND, OTHER	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
9	CEDC	B PCE, CLOTHING & SHOES-----	-0.30	0.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
10	CENF	B PCE, FOOD & BEVERAGE-----	0.40	1.00	1.30	1.60	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
11	CENG	B PCE, GASOLINE & OIL-----	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
12	CENH+H	B PCE, OTHER NONDURABLES-----	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10
13	CESM	B PCE, SERVICES, HOUSING-----	1.35	1.15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	CESD	B PCE, OTHER SERVICES-----	2.80	2.40	1.90	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
15	CESB	B PCE, SERV, HOUSEHOLD OPERAT	3.00	2.00	1.50	1.20	1.00	0.90	0.90	0.90	0.90	0.90	0.90	0.90
16	CESL	B PCE, SERVICES, TRANSPORT	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
17	CPTDFF16013	B CORP PROF & IVA FED RES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	CUMIP	B CAP UTILI MIP/MANUF/UTIL--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	CUMIPMF	B CAP UTILI MANUF-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	CUMIPMF+MG	B CAP UTILI MIN & MANUF-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	CUMIPMF	B CAP UTILI MANUF DUR-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	CUMIPMF	B CAP UTILI MANUF NONDUR-----	0.40	0.30	0.20	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	CUMIPMG	B CAP UTILI MIPING-----	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50
24	CUMIPMG+9	B CAP UTILI UTIL-----	1.40	0.70	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	FCCCLICS	B CURRENCY INSTALLMENT CR	-2.10	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00
26	FCUS	B CURRENCY IN CIRCULATION	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
27	FDRICS	B TIME DEPTS 3100,000+,CD	0.20	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80
28	FDRICS	B SAVINGS DEPT-ALL CMCL A	1.30	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
29	FDRICS	B CMCL INDIAN LOANS-AL CMC	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40
30	FREFY	B FREE RESERVES, FHB MEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	FPMGPE	B EFFECTV PASSBK SAV RATE--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	FPMGSS	B AVG RATE, SMT TERM BUS	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
33	FPMGDSH	B INT RATE, 3-MO CD'S, SEC	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
34	FPMGPM	B INT RATE, 4-AND PRH CMR	-7.00	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40	-6.40
35	FPMCS	B YIELD, MURDY'S TOT CP BU	0.23	0.45	0.58	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
36	FPMCHAAH	B AAA UTIL MND'S, RATE-NEW	0.45	0.53	0.55	0.58	0.64	0.71	0.77	0.84	0.88	0.90	0.90	0.90
37	FPMH	B FEDERAL FUNDS RATE-----	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
38	FPMHGL	B YIELD, US GOV LONG TERM	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
39	FPMHSA	B STATE & LOCAL AAA BND N	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
40	FPMHPRPE	B PRIVE RATE FOR LARGE BU	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
41	FPMHJMY	B MAT YLD, 3MO TBLX US TR	0.24	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
42	MORIO	B 2 DANGER OCC NSF UNITS O	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
43	NSPWSH	B 2 DANGER OCC NSF UNITS O	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
44	NSPWSH	B 2 DANGER OCC NSF UNITS O	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
45	NSPWSH	B 2 DANGER OCC NSF UNITS O	-0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
46	ISAG	B INVESTMENT AGRICULTURE-----	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
47	IACM	B INVEST, NEW PRE, CMCLC	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40
48	IACM	B INVEST, NEW PRE, DUR MA	0.50	0.50	0.53	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56
49	IACM	B INVEST, NEW PRE, NONDUR	0.30	0.30	0.33	0.35	0.35	0.37	0.36	0.36	0.36	0.36	0.36	0.36
50	IACM	B INVEST, NEW PRE, MINING	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

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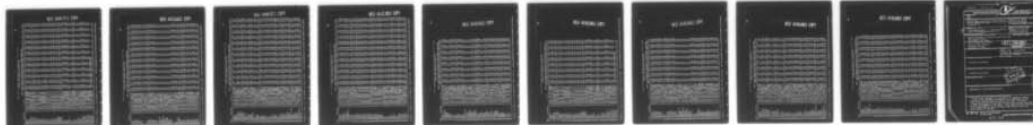
WHARTON ECONOMETRIC FORECASTING ASSOCIATES PHILADELP--ETC F/G 5/3
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THE NATION QUARTERLY MODEL MARK 4.6 SPECIAL INR FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITEM	22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS											
			1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	IANGC48	H INVEST, NEW P&E, COMMUN	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50
2	IANGT	H INVEST, NEW P&E, TRANSP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	IANGU9	H INVEST, NEW P&E, UTIL	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
4	IATC48	H COMMER, NEW P&E, 1ST ANT	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50
5	IATC48S	H COMMER, NEW P&E, 2ND ANT	39.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	IAC48	H COMMER, NEW P&E, 1ST ANT	-9.60	-9.60	-11.60	-12.10	-12.10	-13.10	-13.60	-14.10	-14.10	-15.10	-15.10	-15.10
7	IAC48S	H COMMER, NEW P&E, 2ND ANT	30.14	30.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	IATFD	H MANUF, DUR, 1ST ANT	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
9	IATFDS	H MANUF, DUR, 1ST ANT	27.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	IATFUD	H MANUF, DUR, 2ND ANT	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35
11	IATFUDS	H MANUF, DUR, 2ND ANT	20.30	29.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	IATFEN	H MANUF, NONDURABLES 1ST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	IATFENS	H MANUF, NONDURABLES 1ST	33.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	IATFEN2	H MANUF, NONDURABLES 2ND	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
15	IATFEN2S	H MANUF, NONDURABLES 2ND	33.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	IATMG	H MING, 1ST ANT	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
17	IATMG2	H MING, 2ND ANT	4.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	IATMG2S	H MING, 2ND ANT	4.54	4.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	IATMG2S	H MING, 2ND ANT	-2.70	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65
21	IATMG2S	H MING, 2ND ANT	7.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	IATMG2S	H MING, 2ND ANT	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80
23	IATMG2S	H MING, 2ND ANT	6.60	6.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	IATMG2S	H MING, 2ND ANT	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
25	IATMG2S	H MING, 2ND ANT	26.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	IATMG2S	H MING, 2ND ANT	-11.00	-11.50	-12.00	-12.50	-13.00	-13.50	-14.00	-14.50	-15.00	-15.50	-16.00	-16.50
27	IATMG2S	H MING, 2ND ANT	25.72	27.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	IATMG2S	H MING, 2ND ANT	-0.60	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
29	IATMG2S	H MING, 2ND ANT	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	IATMG2S	H MING, 2ND ANT	3.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
31	IATMG2S	H MING, 2ND ANT	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
32	IATMG2S	H MING, 2ND ANT	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
33	IATMG2S	H MING, 2ND ANT	-0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	IATMG2S	H MING, 2ND ANT	-1.75	-0.75	-0.50	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
38	IATMG2S	H MING, 2ND ANT	-2.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	IATMG2S	H MING, 2ND ANT	-0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	IATMG2S	H MING, 2ND ANT	-0.20	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	IATMG2S	H MING, 2ND ANT	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
44	IATMG2S	H MING, 2ND ANT	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
45	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	IATMG2S	H MING, 2ND ANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THE MARTIN QUARTERLY MODEL MARK 4,6
SPECIAL OMR FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITEM	TABLE	22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	MEETTC	EMP-MINAG PAY, CONTR CU		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	MEETTFI	EMP-MINAG PAY, FIN, INSR		-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
3	MEETTFD	EMP-MINAG PAYROLLS, DUM		-0.12	-0.10	-0.08	-0.06	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
4	MEETTFH	EMP-MINAG PAYROLLS, MONOU		0.02	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
5	MEETTFG	EMP-MINAG PAYROLLS, MIN		0.05	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	MEETTFI	EMP-MINAG PAYROLLS, REGU		0.04	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
7	MEETTFV	EMP-MINAG PAYROLLS, SER		0.09	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
8	MEETTFW	EMP-MINAG PAYROLLS, AMUL		0.22	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
9	MEHA	LABOR FEE, CIV, AGRIC, I		0.56	0.53	0.51	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
10	MLC	TOTAL LABOR FORCE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	MLT	LABOR FORCE		1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
12	MLTTC	LABOR FORCE, CONTRACT CON--		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
13	MLTTFI	LABOR FORCE, FIN, INS & RE		-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
14	MLTTFD	LABOR FORCE, DURABLE MANUFA		-0.42	-0.38	-0.34	-0.30	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29	-0.29
15	MLTTFH	LABOR FORCE, NONDURABLE MANUFA		0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
16	MLTTFG	LABOR FORCE, MINING INDUST		0.23	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
17	MLTTFI	LABOR FORCE, REGULATED IND		0.11	0.16	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
18	MLTTFV	LABOR FORCE, SERVICES		-0.10	0.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
19	MLTTFW	LABOR FORCE, WHOLESALE		0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
20	MRU1	EMPLOYEE RATE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	MRU2	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	MRU3	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	MRU4	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	MRU5	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	MRU6	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	MRU7	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	MRU8	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	MRU9	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	MRU10	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	MRU11	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	MRU12	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	MRU13	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	MRU14	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	MRU15	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	MRU16	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	MRU17	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	MRU18	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	MRU19	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	MRU20	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	MRU21	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	MRU22	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	MRU23	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	MRU24	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	MRU25	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	MRU26	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	MRU27	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	MRU28	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	MRU29	EMPLOYEE RATE, 25-54		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	MRU30	EMPLOYEE RATE, 55+		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	MRU31	EMPLOYEE RATE, 18-24		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BEST AVAILABLE COPY

TABLE 22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS

LINE	VAN LABEL	I	F	M	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	POINER	M	1	PL	DEFL, FIX INVT, NEG	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2	POINER	M	1	PL	DEFL, FIX INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	POINER	I	1	INVT	INVT, DEF, NEG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	POINER	I	1	INVT	INVT, DEF, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	POINER	B	1	DEFL	DEF, INVT, NEG	-2.00	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
6	POINER	B	1	DEFL	DEF, INVT, POS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
7	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
8	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
10	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
12	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
14	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
16	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
18	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
20	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
22	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
24	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
26	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
28	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
30	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
32	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
34	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
36	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
38	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
40	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
42	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
44	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
46	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
48	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	POINER	B	1	DEFL	DEF, INVT, NEG	-1.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
50	POINER	B	1	DEFL	DEF, INVT, POS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THE NARRATION QUANTITATIVELY MODEL NAME 0.0 SPECIAL OWN FORECASTS: OCTOBER 1977

TABLE 27.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS

LINE	VAN LABEL	ITEM	1977.3	1977.4	1978.1	1978.2	1978.3	1978.4	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
1	INCP3	1 SALV REPTS, TPAN PAY TO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	INCP3	1 INCLP, INSUR. PAYMENTS	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
3	INCP3	1 GAS TAX COLLECTIONS---	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
4	INCP3	1 INP NS TAXES IN AC-UIE	-0.30	-0.30	-0.70	-0.70	-0.70	-0.70	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90
5	INCP3	1 FIVE HS TAX ACCR, PROP Y	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	INCP3	1 STATE & LOCAL GAS TAXES	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
7	INCP3	1 STATE & LOCAL TAX	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
8	INCP3	1 FIVE DIV REPTS, CORP, PHE	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.04	-5.04	-5.04	-5.04	-5.04	-5.04
9	INCP3	1 SALV REPTS, CORP PROFIT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	INCP3	1 FIVE DIV REPTS, PERS TAX	-5.00	-5.00	-13.20	-13.20	-13.20	-13.20	-28.20	-28.20	-28.20	-28.20	-28.20	-28.20
11	INCP3	1 SALV REPTS, PERS TAXEND	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
12	INCP3	1 FIVE DIV REPTS, CONTING-SO	2.00	2.00	0.90	0.90	0.90	0.90	-2.35	-2.35	-2.35	-2.35	-2.35	-2.35
13	INCP3	1 SALV REPTS, CONTING-FUN	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
14	INCP3	1 TAX, FED INCOME, TOT DE	47.00	47.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
15	INCP3	1 TAX, FED INCOME, ALEXEMP	12.09	12.11	12.14	12.16	12.19	12.21	12.24	12.26	12.29	12.31	12.34	12.36
16	INCP3	1 TAXABLE INCOME - 1ST BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
17	INCP3	1 TAXABLE INCOME - 2ND BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
18	INCP3	1 TAXABLE INCOME - 3RD BRA	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
19	INCP3	1 TAXABLE INCOME - 4TH BRA	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
20	INCP3	1 TAXABLE INCOME - 5TH BRA	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
21	INCP3	1 TAXABLE INCOME - 6TH BRA	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
22	INCP3	1 TAXABLE INCOME - 7TH BRA	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
23	INCP3	1 TAXABLE INCOME - 8TH BRA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	INCP3	1 TAXABLE INCOME - 9TH BRA	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
25	INCP3	1 TAXABLE INCOME - 10TH BRA	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
26	INCP3	1 TAXABLE INCOME - 11TH BRA	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
27	INCP3	1 TAXABLE INCOME - 12TH BRA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	INCP3	1 TAXABLE INCOME - 13TH BRA	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
29	INCP3	1 TAXABLE INCOME - 14TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
30	INCP3	1 TAXABLE INCOME - 15TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
31	INCP3	1 TAXABLE INCOME - 16TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
32	INCP3	1 TAXABLE INCOME - 17TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
33	INCP3	1 TAXABLE INCOME - 18TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
34	INCP3	1 TAXABLE INCOME - 19TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
35	INCP3	1 TAXABLE INCOME - 20TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
36	INCP3	1 TAXABLE INCOME - 21TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
37	INCP3	1 TAXABLE INCOME - 22TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
38	INCP3	1 TAXABLE INCOME - 23TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
39	INCP3	1 TAXABLE INCOME - 24TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
40	INCP3	1 TAXABLE INCOME - 25TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
41	INCP3	1 TAXABLE INCOME - 26TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
42	INCP3	1 TAXABLE INCOME - 27TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
43	INCP3	1 TAXABLE INCOME - 28TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
44	INCP3	1 TAXABLE INCOME - 29TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
45	INCP3	1 TAXABLE INCOME - 30TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
46	INCP3	1 TAXABLE INCOME - 31TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
47	INCP3	1 TAXABLE INCOME - 32TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
48	INCP3	1 TAXABLE INCOME - 33TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
49	INCP3	1 TAXABLE INCOME - 34TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
50	INCP3	1 TAXABLE INCOME - 35TH BRA	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02

BEST AVAILABLE COPY

TIME-WHARTON QUARTERLY MODEL MAPA 4.6
SPECIAL UNR FORECAST: OCTOBER 1977

LINE	VAR LABEL	ITEM	TABLE	22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2
1	CCATS	B CAP CUMS ALLUM, ALL IND		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2	CCATF05+65	B CAP CUMS ALLUM, REAL ES		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	CCADAPV0	B PCE, USE AUTOS, PARTS		1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4	CCEDAVND	B PCE, DOMESTIC AUTOS		-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
5	CCEDAVN	B PCE, RECREATIONAL VEH		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	CCEDAVI	B PCE, NEW & USED TRUCKS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	CCEDV	B PCE, FURNITURE & HOUSEH		-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
8	CCEDH	B PERS CUMS EXPND, OTHER		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
9	CEHC	B PCE, CLOTHING & SHOES		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
10	CEHF	B PCE, FOOD & BEVERAGE		1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
11	CEHG	B PCE, GASOLINE & OIL		-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
12	CEH0H	B PCE, OTHER NONDURABLES		-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10
13	CESM	B PCE, SERVICES, HOUSING		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	CESU	B PCE, OTHER SERVICES		1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
15	CESS	B PCE, SERV, HSEHOLD OPERAT		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
16	CEST	B PCE, SERVICES, TRANSPORT		-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
17	CEPNDP0013	B CUMP PROF & IVA FED RES		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	CEU0P	B CAP UTIL MIN/HAN/UTIL		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	CEU0P0F	B CAP UTIL MANUF		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	CEU0P0F0H6	B CAP UTIL MIN & MANUF		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	CEU0P0F0D	B CAP UTIL MANUF DUR		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	CEU0P0F0N	B CAP UTIL MANUF NONDUR		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	CEU0P0F0H6	B CAP UTIL MINING		-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50
24	CEU0P0F0H6	B CAP UTIL UTIL		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	CEU0P0F0H6	B CONSUMER INSTALLMENT CR		-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00	-5.00
26	CEU0P0F0H6	B CURRENCY IN CIRCULATION		-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
27	CEU0P0F0H6	B TIME DEPTS \$100,000, CD		-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80
28	CEU0P0F0H6	B SAVINGS DEPT-ALL CML B		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
29	CEU0P0F0H6	B C&I INDIUS LOANS-AL CMC		-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40
30	CEU0P0F0H6	B FPEE RESERVES, FRB MEM		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	CEU0P0F0H6	B EFFECTV PASSBR SAV RATE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	CEU0P0F0H6	B AVG RATE, SMT TERM BUS		1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
33	CEU0P0F0H6	B 1-Y RATE, 3-MO CD'S, SEC		-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
34	CEU0P0F0H6	B 1-Y RATE, 4-6MO PRM CRR		-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
35	CEU0P0F0H6	B YIELD, MUNDY'S TOT CP RD		1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
36	CEU0P0F0H6	B AAA UTIL BND'S, RATE-NEW		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
37	CEU0P0F0H6	B FEDERAL FUNDS RATE		0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
38	CEU0P0F0H6	B YIELD, US GOV LONG TERM		0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
39	CEU0P0F0H6	B STATE & LOCAL AAA BUD R		-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
40	CEU0P0F0H6	B PRIME RATE FOR LARGE BU		0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
41	CEU0P0F0H6	B 1-Y YLD, 3MO TREAS US TR		0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
42	CEU0P0F0H6	B 3-MO YR OCC MSE UNITS O		-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
43	CEU0P0F0H6	B MENTAL HOUSING		-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
44	CEU0P0F0H6	B MINUS STANTS, PRIV, MULTPL		-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
45	CEU0P0F0H6	B MINUS STANTS, PRIV, SINGLE		0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
46	CEU0P0F0H6	B INVESTMENT AGRICULTURE		0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
47	CEU0P0F0H6	B INVEST, NEW PAF, CMCRA		-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40	-3.40
48	CEU0P0F0H6	B INVEST, NEW PAF, DUR MA		0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
49	CEU0P0F0H6	B INVEST, NEW PAF, MINOUR		0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
50	CEU0P0F0H6	B INVEST, NEW PAF, MINING		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

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THE PHILADELPHIA QUARTERLY MODEL MARK 4.6
SPECIAL UNW FORECAST OCTOBER 1977

LINE	VAN LABEL	ITL M	TABLE 22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS	1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2
1	IARGC4A		INVEST, NEW P&L, COMMON	-5.50	-5.50	-5.45	-5.40	-5.40	-5.40	-5.40	-5.40
2	IARGC4B		INVEST, NEW P&L, TRANSP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	IARGC4C		INVEST, NEW P&L, UTILIT	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
4	IARGC4D		CUMULATIVE+COMM 1ST ANT.	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50	-5.50
5	IARGC4E		CUMULATIVE+COMM 1ST ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	IARGC4F		CUMULATIVE+COMM 2ND ANT.	-15.00	-15.00	-14.75	-14.55	-14.45	-14.45	-14.45	-14.45
7	IARGC4G		CUMULATIVE+COMM 2ND ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	IARGC4H		MANUF DUR, 1ST ANT.	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
9	IARGC4I		MANUF DUR, 1ST ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	IARGC4J		MANUF DUR, 2ND ANT.	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35
11	IARGC4K		MANUF DUR, 2ND ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	IARGC4L		MANUF. NONDURABLES 1ST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	IARGC4M		MANUF. NONDURABLES 1ST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	IARGC4N		MANUF. NONDURABLES 2ND	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
15	IARGC4O		MANUF. NONDURABLES 2ND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	IARGC4P		MINING 1ST ANT.	-0.20	-0.20	-0.20	-0.25	-0.25	-0.25	-0.25	-0.25
17	IARGC4Q		MINING 1ST ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	IARGC4R		MINING 2ND ANT.	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
19	IARGC4S		MINING 2ND ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	IARGC4T		REGULATED 1ST ANT.	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65	-2.65
21	IARGC4U		REGULATED 1ST ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	IARGC4V		REGULATED 2ND ANT.	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80	-2.80
23	IARGC4W		REGULATED 2ND ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	IARGC4X		UTILITIES 1ST ANT.	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
25	IARGC4Y		UTILITIES 1ST ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	IARGC4Z		UTILITIES 2ND ANT.	-17.00	-17.50	-18.00	-18.50	-19.00	-19.50	-20.00	-20.50
27	IARGC4AA		UTILITIES 2ND ANT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	IARGC4AB		FIX INVEST NONRES, PD DU	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
29	IARGC4AC		FIX INVEST NONRES, PD DU	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	IARGC4AD		FIXES INVEST, MFS STRUCT	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
31	IARGC4AE		CHANGE-RUS INVENTORIES,	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
32	IARGC4AF		CHANGE-RUS INVENTORIES,	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
33	IARGC4AG		CHANGE-DEALERS AUTO IN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	IARGC4AH		IND PROD, TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	IARGC4AI		IND PROD, MANUFACTURING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	IARGC4AJ		IND PROD, MANUF DURABLES	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
37	IARGC4AK		IND PROD, MANUF, NONDURAB	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
38	IARGC4AL		IND PROD, MINING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	IARGC4AM		IND PROD, MINING & UTIL.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	IARGC4AN		IND PROD, UTILITIES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	IARGC4AO		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	IARGC4AP		INVENTORY VAL ADJ, ALL I	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
43	IARGC4AQ		INVENTORY VAL ADJ, ALL I	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
44	IARGC4AR		INVENTORY VAL ADJ, ALL I	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
45	IARGC4AS		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	IARGC4AT		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	IARGC4AU		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	IARGC4AV		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	IARGC4AW		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	IARGC4AX		INVENTORY VAL ADJ, ALL I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THE N HARTON QUARTERLY MODEL MARK 4.0
SPECIAL QWR FORECAST, OCTOBER 1977

LINE	VAR LABEL	ITEM	22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS									
			1980.3	1980.4	1981.1	1981.2	1981.3	1981.4	1982.1	1982.2		
1	NEETEC	N EMP-INAG PAY, CUMIN CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	NEETFI	N EMP-INAG PAY, FIN, INSE	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
3	NEETMD	N EMP-INAG PAYROLLS, DUM	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
4	NEETMH	N EMP-INAG PAYROLLS, MUMH	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
5	NEETING	N EMP-INAG PAYROLLS, MHH	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	NEETING	N EMP-INAG PAYROLLS, REGU	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
7	NEETSV	N EMP-INAG PAYROLLS, SER	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
8	NEETSW	N EMP-INAG PAYROLLS, WHUL	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
9	NEHA	N LARUM FCE, CTV, AGRIC, T	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
10	NLC	I TOTAL CIVILIAN LABOR FO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	NLT	N TOTAL LABUM FORCE-----	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
12	NMLTCC	N MACHINERS, CONTRACT CUM--	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
13	NMLTFI	N MACHINERS, FIN, INS & RL	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
14	NMLTMFI	N MACHINERS, DURABLE MANUFA	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
15	NMLTMFI	N MACHINERS, NONDUR MANUFA	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
16	NMLTMFI	N MACHINERS, MINING INDUSTR	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
17	NMLTMFI	N MACHINERS, REGULATED IND	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
18	NMLTTSV	N MACHINERS, SERVICES-----	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
19	NMLTTSV	N MACHINERS, WHOLESALE RETAIL	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
20	NMLTTSV	N EMPLOYMENT RATE-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	NMLTTSV	N EMPLOY RT, MALES, 25-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	NMLTTSV	N EMPLOY RT, FEMALES, 25-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	NMLTTSV	N EMPLOY RT, OTHER MALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	NMLTTSV	N EMPLOY RT, OTHER FEMALES-----	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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THE MA R I T I M E A U T H E N T I C M O D E L M A K E R
SPECIAL WIN FORECAST: OCTOBER 1977

	1974	1977	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																			
22.00	1980.5	1980.8	1981.1	1981.2	1981.5	1981.8	1982.1	1982.4	1982.7	1983.0	1983.3	1983.6	1983.9	1984.2	1984.5	1984.8	1985.1	1985.4	1985.7	1986.0	1986.3	1986.6	1986.9	1987.2	1987.5	1987.8	1988.1	1988.4	1988.7	1989.0	1989.3	1989.6	1989.9	1990.2	1990.5	1990.8	1991.1	1991.4	1991.7	1992.0	1992.3	1992.6	1992.9	1993.2	1993.5	1993.8	1994.1	1994.4	1994.7	1995.0	1995.3	1995.6	1995.9	1996.2	1996.5	1996.8	1997.1	1997.4	1997.7	1998.0	1998.3	1998.6	1998.9	1999.2	1999.5	1999.8	2000.1	2000.4	2000.7	2001.0	2001.3	2001.6	2001.9	2002.2	2002.5	2002.8	2003.1	2003.4	2003.7	2004.0	2004.3	2004.6	2004.9	2005.2	2005.5	2005.8	2006.1	2006.4	2006.7	2007.0	2007.3	2007.6	2007.9	2008.2	2008.5	2008.8	2009.1	2009.4	2009.7	2010.0	2010.3	2010.6	2010.9	2011.2	2011.5	2011.8	2012.1	2012.4	2012.7	2013.0	2013.3	2013.6	2013.9	2014.2	2014.5	2014.8	2015.1	2015.4	2015.7	2016.0	2016.3	2016.6	2016.9	2017.2	2017.5	2017.8	2018.1	2018.4	2018.7	2019.0	2019.3	2019.6	2019.9	2020.2	2020.5	2020.8	2021.1	2021.4	2021.7	2022.0	2022.3	2022.6	2022.9	2023.2	2023.5	2023.8	2024.1	2024.4	2024.7	2025.0	2025.3	2025.6	2025.9	2026.2	2026.5	2026.8	2027.1	2027.4	2027.7	2028.0	2028.3	2028.6	2028.9	2029.2	2029.5	2029.8	2030.1	2030.4	2030.7	2031.0	2031.3	2031.6	2031.9	2032.2	2032.5	2032.8	2033.1	2033.4	2033.7	2034.0	2034.3	2034.6	2034.9	2035.2	2035.5	2035.8	2036.1	2036.4	2036.7	2037.0	2037.3	2037.6	2037.9	2038.2	2038.5	2038.8	2039.1	2039.4	2039.7	2040.0	2040.3	2040.6	2040.9	2041.2	2041.5	2041.8	2042.1	2042.4	2042.7	2043.0	2043.3	2043.6	2043.9	2044.2	2044.5	2044.8	2045.1	2045.4	2045.7	2046.0	2046.3	2046.6	2046.9	2047.2	2047.5	2047.8	2048.1	2048.4	2048.7	2049.0	2049.3	2049.6	2049.9	2050.2	2050.5	2050.8	

LINE	VAR LAMB	I T T M	1980.3 1980.4 1981.1 1981.2 1981.3 1981.4 1982.1 1982.2									
			1	2	3	4	5	6	7	8	9	10
1	FELEP	M IMPL DEF, L, FIX INVT, RES	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
2	FOLEP	M IMPL DEF, L, FIX INVT, MINT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	PIMJIN	I INVENTURY DEF, L, INVT, MINT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	PIMJIN	M DEF, M IN INVENTURES	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
5	PIMJIN	M DEF, M IN INVENTURES	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	PIMJIN	M DEF, M IN INVENTURES	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
8	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	PIMJIN	M DEF, M IN INVENTURES	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
10	PIMJIN	M DEF, M IN INVENTURES	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70
11	PIMJIN	M DEF, M IN INVENTURES	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
12	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	PIMJIN	M DEF, M IN INVENTURES	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
14	PIMJIN	M DEF, M IN INVENTURES	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00
15	PIMJIN	M DEF, M IN INVENTURES	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
16	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	PIMJIN	M DEF, M IN INVENTURES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
18	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	PIMJIN	M DEF, M IN INVENTURES	-21.61	-21.61	-21.61	-21.61	-21.61	-21.61	-21.61	-21.61	-21.61	-21.61
21	PIMJIN	M DEF, M IN INVENTURES	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
22	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	PIMJIN	M DEF, M IN INVENTURES	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
24	PIMJIN	M DEF, M IN INVENTURES	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
25	PIMJIN	M DEF, M IN INVENTURES	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
26	PIMJIN	M DEF, M IN INVENTURES	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
27	PIMJIN	M DEF, M IN INVENTURES	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
28	PIMJIN	M DEF, M IN INVENTURES	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
29	PIMJIN	M DEF, M IN INVENTURES	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
30	PIMJIN	M DEF, M IN INVENTURES	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
31	PIMJIN	M DEF, M IN INVENTURES	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
32	PIMJIN	M DEF, M IN INVENTURES	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
33	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	PIMJIN	M DEF, M IN INVENTURES	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
35	PIMJIN	M DEF, M IN INVENTURES	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
36	PIMJIN	M DEF, M IN INVENTURES	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70
37	PIMJIN	M DEF, M IN INVENTURES	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
38	PIMJIN	M DEF, M IN INVENTURES	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
39	PIMJIN	M DEF, M IN INVENTURES	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
40	PIMJIN	M DEF, M IN INVENTURES	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
41	PIMJIN	M DEF, M IN INVENTURES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	PIMJIN	M DEF, M IN INVENTURES	-21.10	-21.10	-21.10	-21.10	-21.10	-21.10	-21.10	-21.10	-21.10	-21.10
43	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	PIMJIN	M DEF, M IN INVENTURES	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
45	PIMJIN	M DEF, M IN INVENTURES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	PIMJIN	M DEF, M IN INVENTURES	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
47	PIMJIN	M DEF, M IN INVENTURES	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	PIMJIN	M DEF, M IN INVENTURES	11.70	12.10	12.50	12.60	12.60	12.60	12.60	12.60	12.60	12.60
49	PIMJIN	M DEF, M IN INVENTURES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
50	PIMJIN	M DEF, M IN INVENTURES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

THE WHARTON QUARTERLY MODEL MARK 4,4
SPECIAL UNR FORECAST, OCTOBER 1977

LINE	VARIABLE	ITEM	TABLE	22.00 CONSTANT ADJUSTMENTS TO BEHAVIORAL EQUATIONS	1980.5	1980.8	1981.1	1981.2	1981.5	1981.8	1982.1	1982.2
1	INSPS	N SALIC HCPTS, TRAN PAY ID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	TRIPUS	N UNEMPL, INSUR, PAYMENTS	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
3	TECH6S	N GAS TAX COLLECTIONS----	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
4	TECH6S	N FIP MS TAXATION TX AC-0IL	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
5	TECH6S	N INDM MS TAX ALCH, PRPPT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	TECH6S	N STATE & LOCAL GAS TAXES	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
7	TECH6S	N STATE & LOCAL TAX	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
8	TECH6S	N FED GUV HCPTS, CUMPR, PMT	-5.04	-5.04	-5.04	-5.04	-5.04	-5.04	-5.04	-5.04	-5.04	-5.04
9	TECH6S	N SALIC HCPTS, CUMPR, PMT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	TECH6S	N FED GUV HCPTS, PERS TAXN	-15.30	-15.30	-15.30	-15.30	-15.30	-15.30	-15.30	-15.30	-15.30	-15.30
11	TECH6S	N SALIC HCPTS, PERS TAXN	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60	-0.60
12	TECH6S	N FED GUV HCPTS, CUMPR-SO	-0.70	-0.65	-1.30	-1.35	-1.30	-1.35	-1.30	-1.35	-1.30	-1.35
13	TECH6S	N SALIC HCPTS, CONTRIN FOR	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
14	TECH6S	N TAX, FED INCOME, TOT DE	59.00	60.00	61.00	62.00	63.00	64.00	65.00	66.00	67.00	68.00
15	TECH6S	N TAX, FED INCOME, ALEXEM	12.39	12.41	12.44	12.46	12.49	12.51	12.54	12.56	12.59	12.61
16	TECH6S	N TAXABLE INCOME- 1ST BRR	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
17	TECH6S	N TAXABLE INCOME- 2ND BRR	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
18	TECH6S	N TAXABLE INCOME- 3RD BRR	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
19	TECH6S	N TAXABLE INCOME- 4TH BRR	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
20	TECH6S	N TAXABLE INCOME- 5TH BRR	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
21	TECH6S	N TAXABLE INCOME- 6TH BRR	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
22	TECH6S	N TAXABLE INCOME, 7TH BRR	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
23	TECH6S	N TAXABLE INC-8 & 9TH BRR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	TECH6S	N AGE PEN MAN, AGRICULTU	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
25	TECH6S	N AGE RATE, CONTRACT CON	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
26	TECH6S	N AGE RATE, FIN, INSREAL	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
27	TECH6S	N AGE RATE, MANUF, DURAB	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
28	TECH6S	N AGE RATE, MANUF, MANUF	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
29	TECH6S	N AGE RATE, MINING-----	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
30	TECH6S	N AGE RATE, REGULATED IN	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
31	TECH6S	N AGE RATE, SERVICES----	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
32	TECH6S	N AGE RATE, WHEARETAIL T	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
33	TECH6S	N OUTPUT ORIG, AGRICULTUR	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
34	TECH6S	N OUTPUT ORIG, FINANCIAL-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	TECH6S	N OUTPUT ORIG, MANUF DURA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	TECH6S	N OUTPUT ORIG, MANUF, NON	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20
37	TECH6S	N OUTPUT ORIG, COMMUNICAT	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
38	TECH6S	N OUTPUT ORIG, TRANSPORTA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	TECH6S	N OUTPUT ORIG, UTILITIES--	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00
40	TECH6S	N OUTPUT ORIG, SERVICES--	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
41	TECH6S	N OUTPUT ORIG, WHOLESALE,	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	TECH6S	N OUTPUT ORIG, TOTAL-----	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
43	TECH6S	N PROPRIETORS' INCOME, BUS	-4.60	-4.60	-4.60	-4.60	-4.60	-4.60	-4.60	-4.60	-4.60	-4.60
44	TECH6S	N PROPRIETORS' INCOME, FA	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10	-2.10
45	TECH6S	N NET INTEREST, NAT'L INC	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
46	TECH6S	N INCORP, F, INVEST PD NY C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	TECH6S	N FED GUV EXPEND, NET INT	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25	-1.25
48	TECH6S	N NETAL INCOME OF PERSON	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) → This report documents an investigation on comparative methods of modeling the demographic characteristics of employment and the labor force, based on modeling stocks or net flows. The former is taken from research by the Urban Institute and the latter developed by WEFA and documented in the report. After comparing their characteristics the WEFA model is used to forecast labor markets through the second quarter of 1982. ←		

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